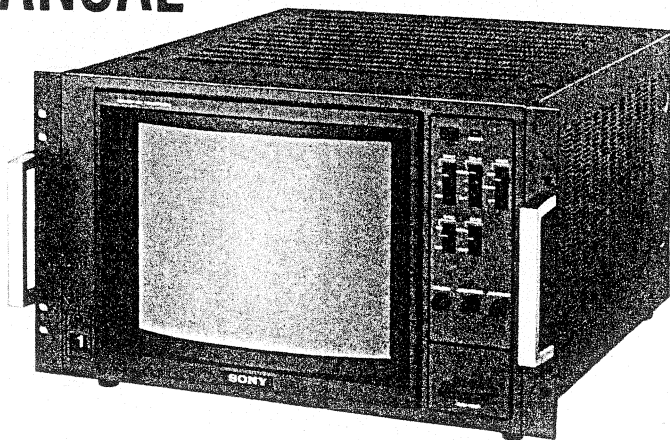


PVM-1320P

SERVICE MANUAL

Chassis No. SCC-363A



July, 1981


SPECIFICATIONS

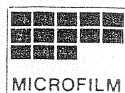
Television system	CCIR standards B, G and H
Colour system	PAL colour system
Picture tube	Trinitron tube, 33 cm (31 cm measured diagonally) 90 degree deflection
Video input	noncomposite: 0.7 V (p-p), unbalanced Composite: 0.5 - 2.0 V (p-p), sync negative
Sync input	1.0 - 8.0 V (p-p), nominally 4.0 V (p-p) negative
Video/sync input impedance	High impedance for loop-through; 75Ω terminated
Power requirements	220 or 240 V ac ~ adjustable, 50/60 Hz
Power consumption	100 W

Dimensions	480 × 284 × 512 mm (w/h/d) (19 × 11 ¹ / ₄ × 20 ³ / ₄ inches)
Weight	Approx. 25 kg (55 lb 2 oz)
Supplied accessories	Number plates (5) 4-pin connectors (2)

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.



TRINITRON®
COLOUR VIDEO MONITOR
SONY®

MON

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

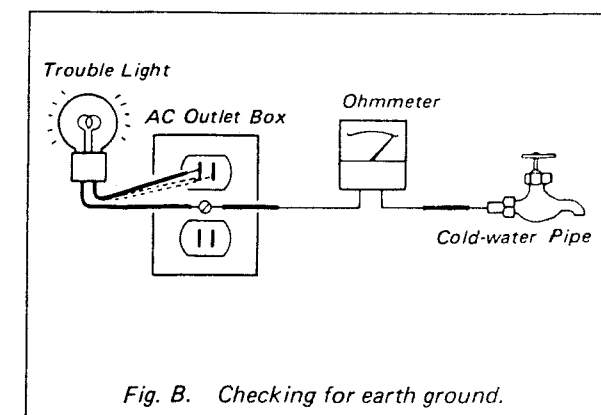
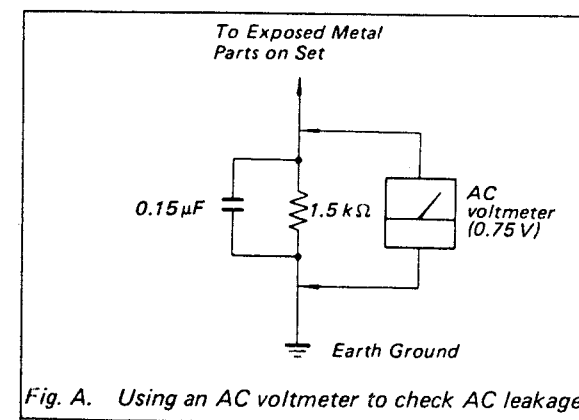
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



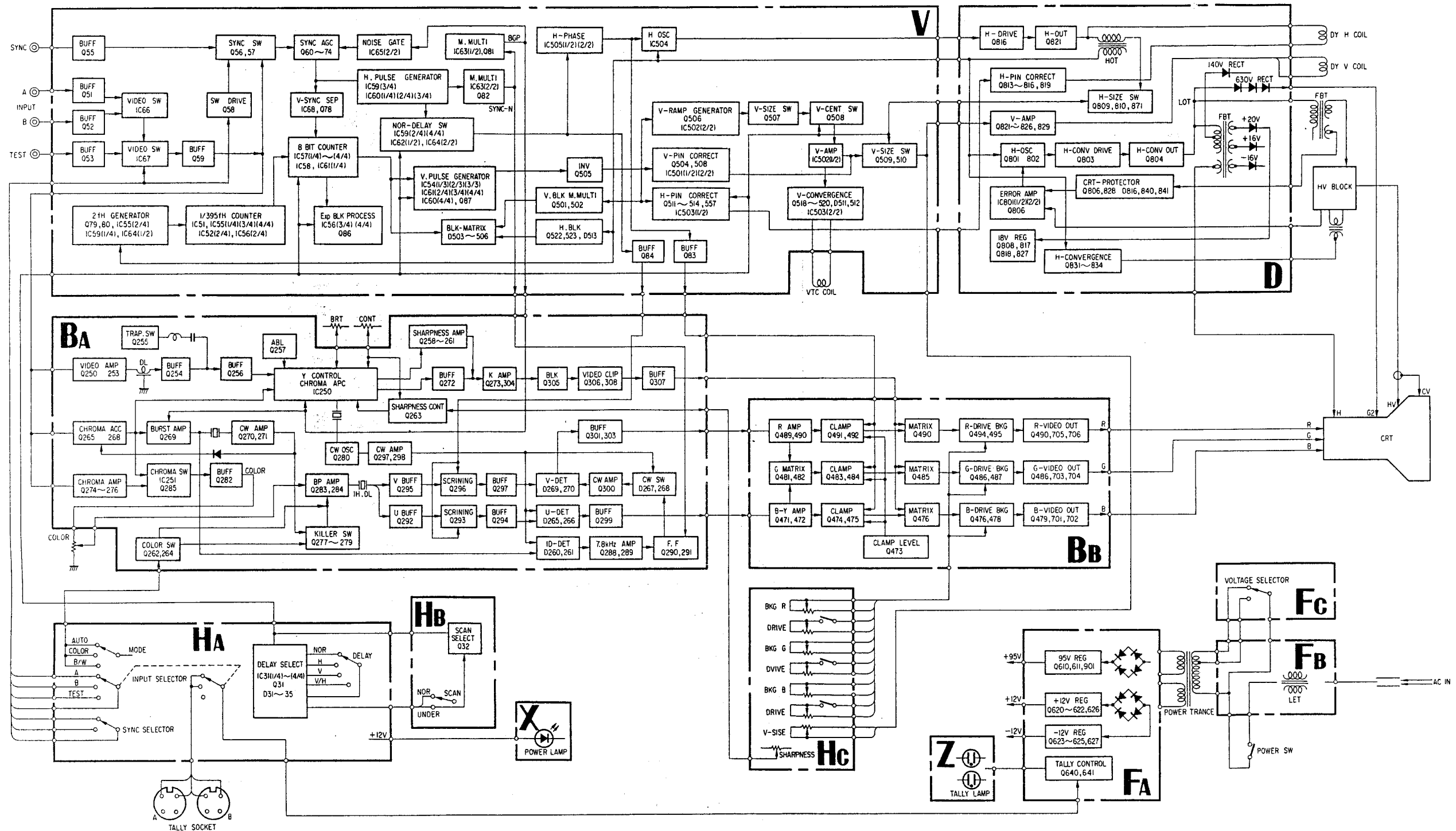
SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM

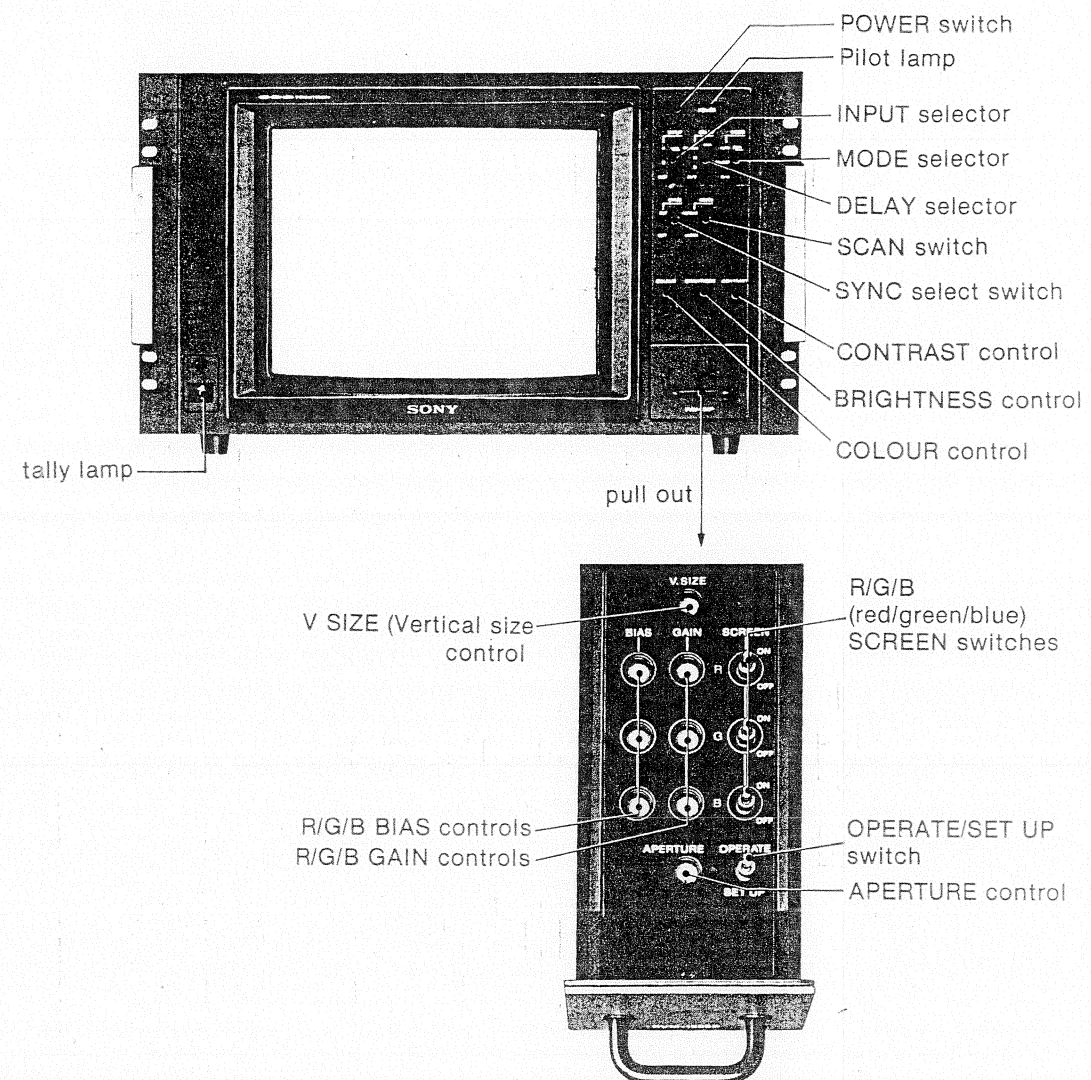
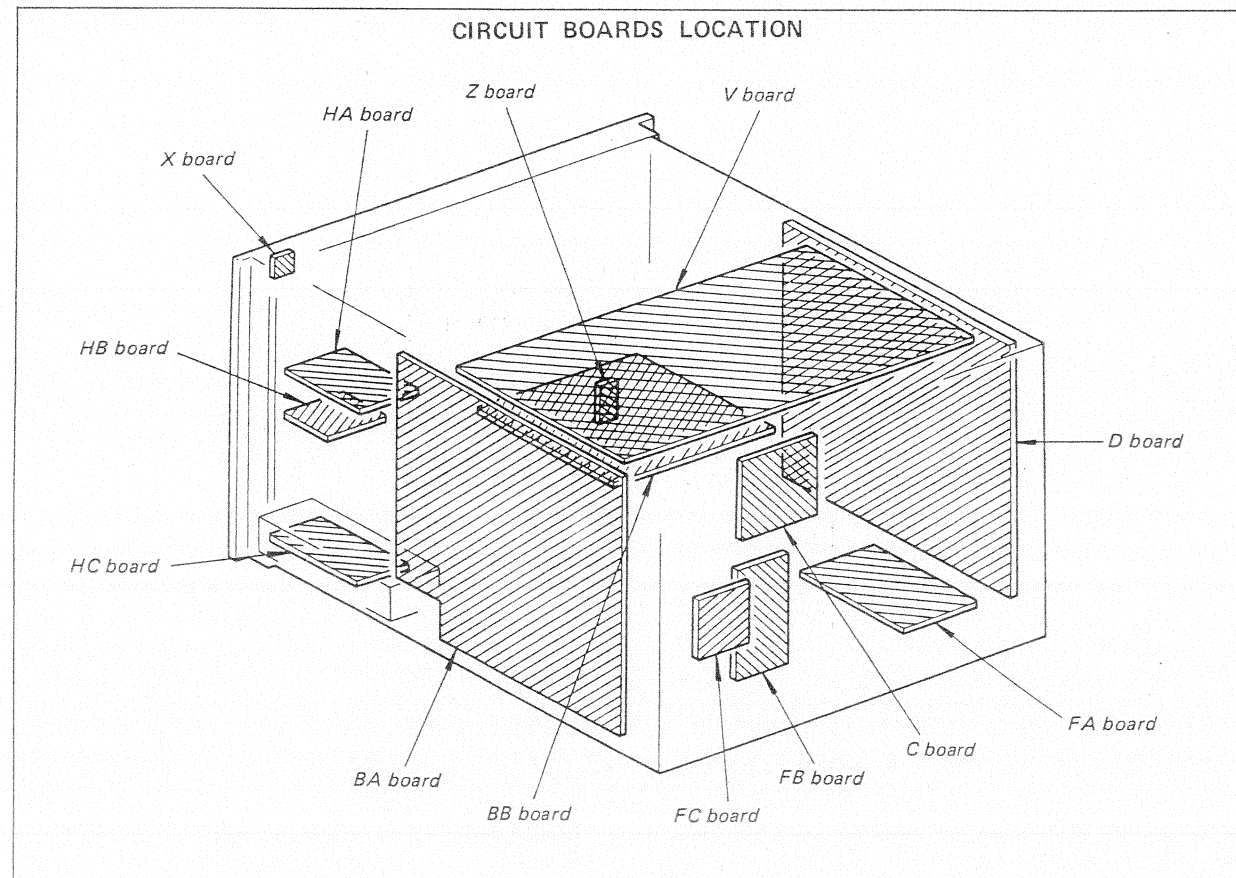
SCC-363A-A

PVM-1320P PVM-1320P

SCC-363A-A



LOCATION AND FUNCTION OF CONTROLS AND CONNECTORS



POWER switch and pilot lamp

To turn the monitor on, depress the POWER switch ; the associated pilot lamp will light. To turn the monitor off, depress the button again.

INPUT SELECT buttons

A : for monitoring the picture connected to the VIDEO A IN connector.

B : for monitoring the picture connected to the VIDEO B IN connector.

TEST : for monitoring the picture connected to the TEST connector.

MODE selector

AUTO : the presence of burst activates the colour circuits ; absence of burst deactivates colour circuits.

COLOUR : colour circuits are activated regardless of the presence or absence of burst.

B/W : colour circuits are deactivated ; the picture will be displayed in black and white.

DELAY selector

NORMAL

H : picture is shifted horizontally, and the horizontal sync is displayed in left approximately one-fourth of screen. Picture brightness is automatically increased.

V : picture is shifted vertically, and the vertical sync is displayed near the centre of screen. Picture is expanded by approximately 5 times, unless the underscan is activated.

H/V : picture is shifted horizontally and vertically (cross-pulse).

SCAN select switch

Selects the normal scanning or under scanning. Under scanning reduces display size by about 10%.

When this switch is set to **UNDERSCAN**, vertical sync expansion is cancelled.

SYNC select switch

EXT : when an external pulse is supplied from an external sync generator, with either composite or non-composite video signal.

INT : when composite video is supplied without external sync.

CONTRAST control *

Adjusts the picture contrast.

BRIGHTNESS control*

Adjusts the picture brightness.

COLOUR control*

Adjusts the colour intensity of the picture. Clockwise rotation makes the picture vivid; anticlockwise rotation makes it pale.

*The CONTRAST, BRIGHTNESS, COLOUR controls are recommended to be set nearly at their centre positions normally.

V SIZE control

Adjusts the picture height gains in the normal or underscanned picture respectively.

R/G/B SCREEN switches

These switches allow the appropriate beam to be turned on or off.

R/G/B BIAS controls

These controls provide screen adjustment for low-light colour temperature.

R/G/B GAIN controls

These controls provide screen adjustment for high-light colour temperature.

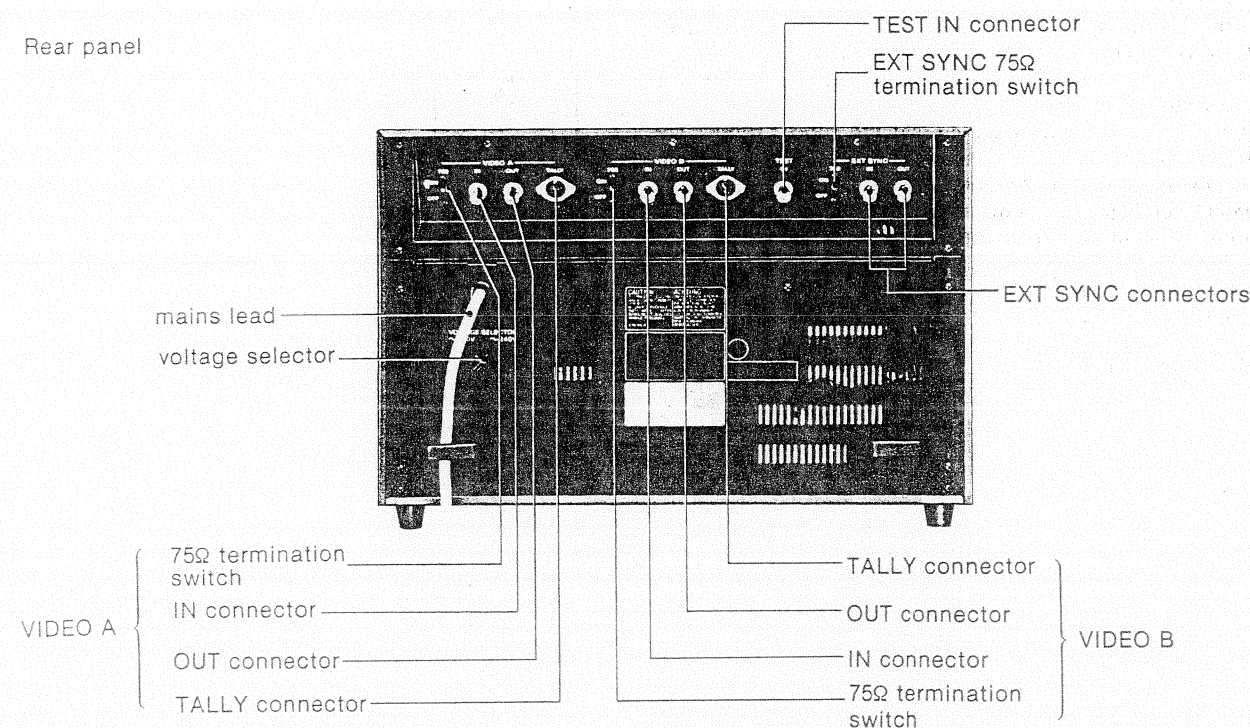
OPERATE/SETUP switch

Normally, set this switch to OPERATE.

When this switch is set to SETUP, a horizontal white bar is displayed on the screen for adjusting the low-level white balance.

APERTURE control

Adjusts the frequency response.



VIDEO A/VIDEO B

IN connectors

Connect to the video output of a video tape recorder or another monitor (for loop through connection), or to a colour camera.

OUT connectors

Connect the video input of another monitor or a video tape recorder.

75Ω termination switches

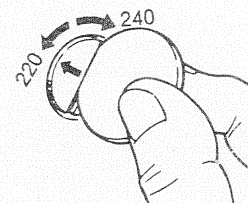
When the monitor is used singly, or is the last of looped chain, set the switch to ON. When another monitor is connected to the OUT connector, set the switch to OFF.

TALLY connectors

Connect to the tally output of the video console, special-effects generator, etc. Then the tally light feature of this monitor is utilized, and the tally lamp at the front will be turned on or off by the connected console or special-effects generator.

VOLTAGE selector

Selects the operating house current voltage, 220 V or 240 V ac.



EXT SYNC 75Ω termination switch

When an equipment is connected to the EXT SYNC OUT connector, set the switch to OFF. When not connected set to ON.

EXT SYNC connectors

Connect an external sync generator to the EXT SYNC IN connector. The OUT connector supplies the external sync signal from the external sync generator connected to the IN connector.

TEST IN connector

Connect the test signal.

SET UP

Scan Selection

Normal scanning or underscanning is achieved by the proper selection of the SCAN switch. Underscanning reduces display size by about 10%.

Delayed scanning is accomplished by the setting of the DELAY selector. When scanning is delayed vertically, horizontally or vertically and horizontally (cross-pulse), picture brightness is simultaneously increased for easier observation. Vertical scanning is expanded 5X to permit close inspection of the vertical interval.

White balance

- ① Connect a monoscope test signal and select the appropriate input.
- ② Turn on all R, G, B screen switches.
- ③ Set the BRIGHTNESS control to the mechanical centre and turn the CONTRAST control clockwise.
- ④ Adjust all R, G, B GAIN and BIAS controls to mechanical centre with a screwdriver.
- ⑤ To adjust low-level white balance, set the OPERATE/SETUP switch to SETUP to display a horizontal white line on the screen.
- ⑥ Adjust the R, G, B BIAS controls to obtain optimum white balance at 20 lux.
- ⑦ To adjust high-level white balance, set the OPERATE/SET UP switch to OPERATE.
- ⑧ Set the G GAIN control to the mechanical centre.
- ⑨ Observe the white portion of the screen and adjust the R, B GAIN controls for optimum white balance.

Confirm that optimum white is obtained at low-level to achieve proper tracking.

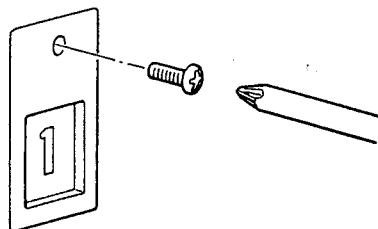
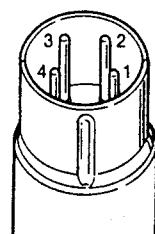
Repeat steps ⑤ - ⑨ if necessary.

Tally light

When the tally-light feature of this monitor is to be utilized, connect the TALLY connectors of the monitor to a console, special-effects generator, etc. with the No. 1 and 4 pins short-circuited. The tally lamp at the front is interlocked by the INPUT selector and will be turned on or off by the console or special-effects generator.

Remove the screw, replace the plastic number plate supplied and fasten with the original screw.

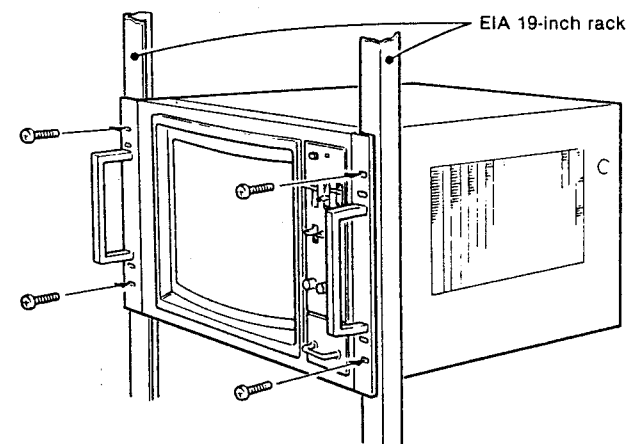
Pin connections
1 . . . Hot
4 . . . Ground



INSTALLATION

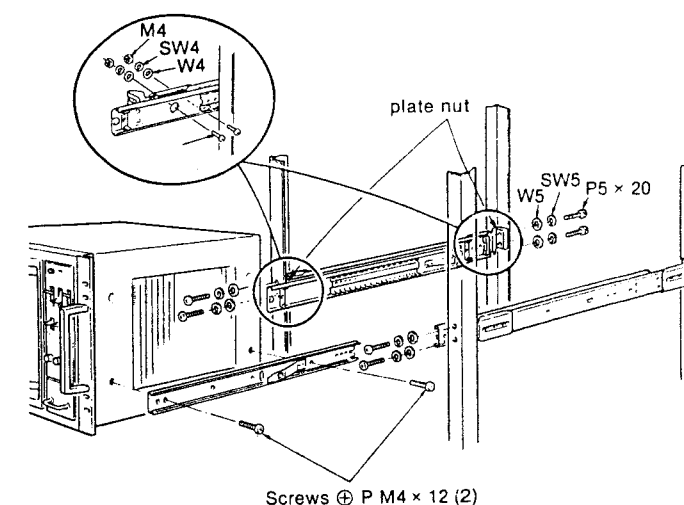
Be sure that the mains lead is disconnected from the mains outlet.

RACK MOUNTING

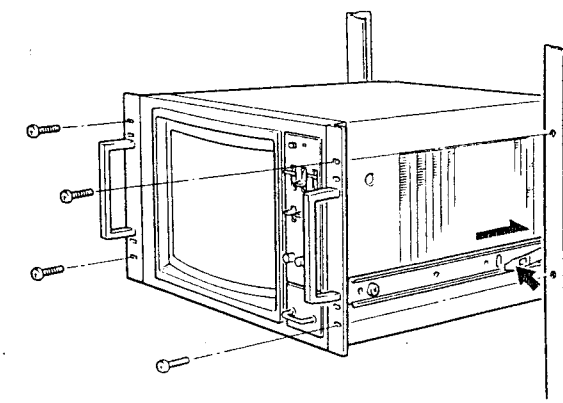


Mount the monitor to the 19-inch EIA standard rack and secure with four 5 × 16 machine screws.

SLIDE RAIL MOUNTING (optional)



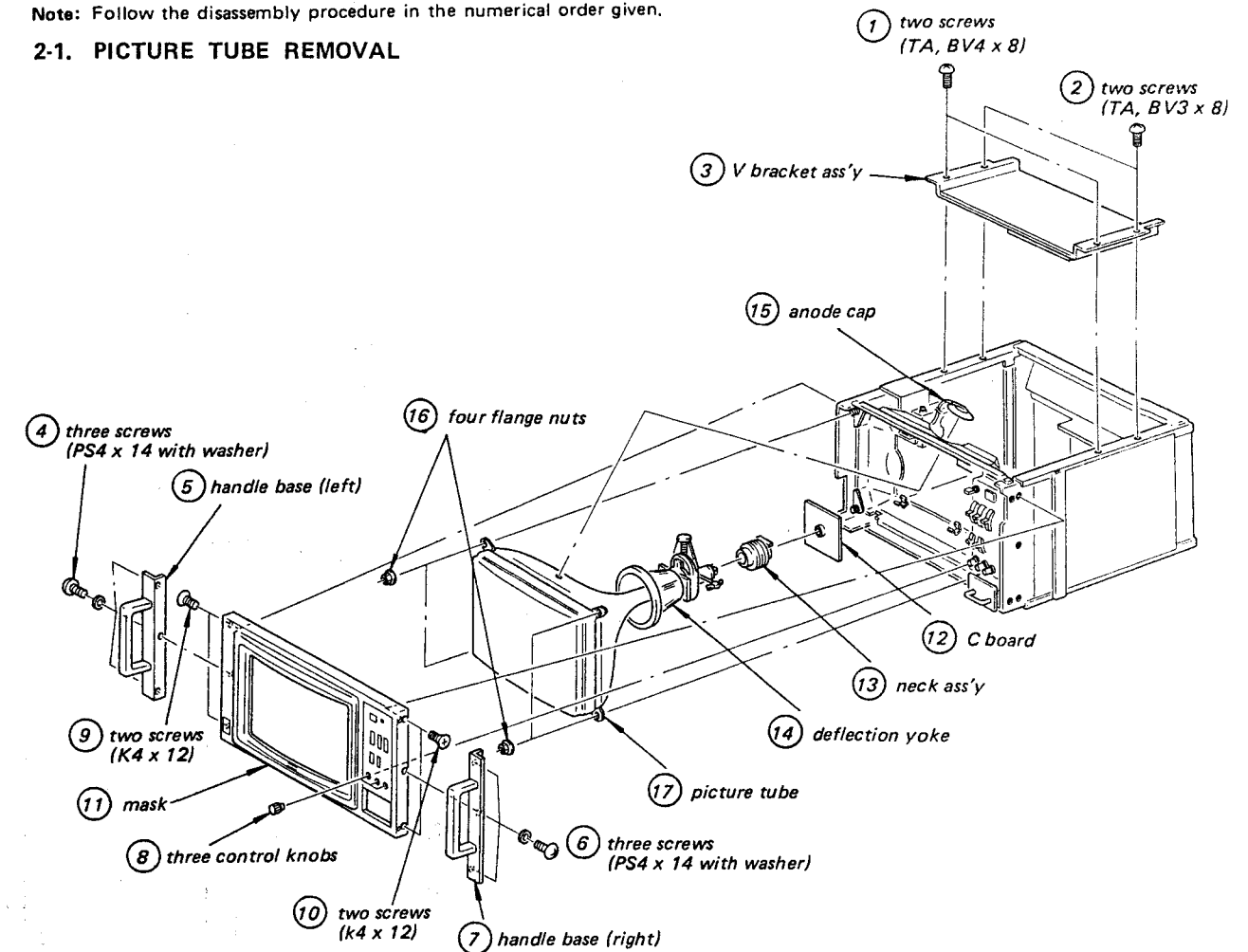
Length of the fully extended rails is approximately 520 mm (20 1/2 inches).



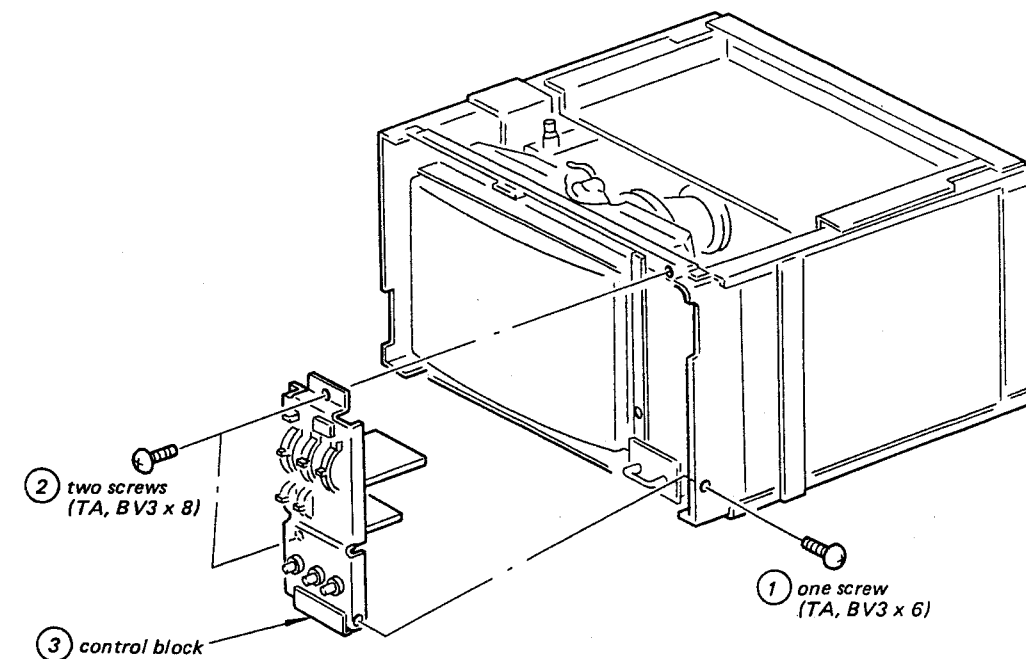
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

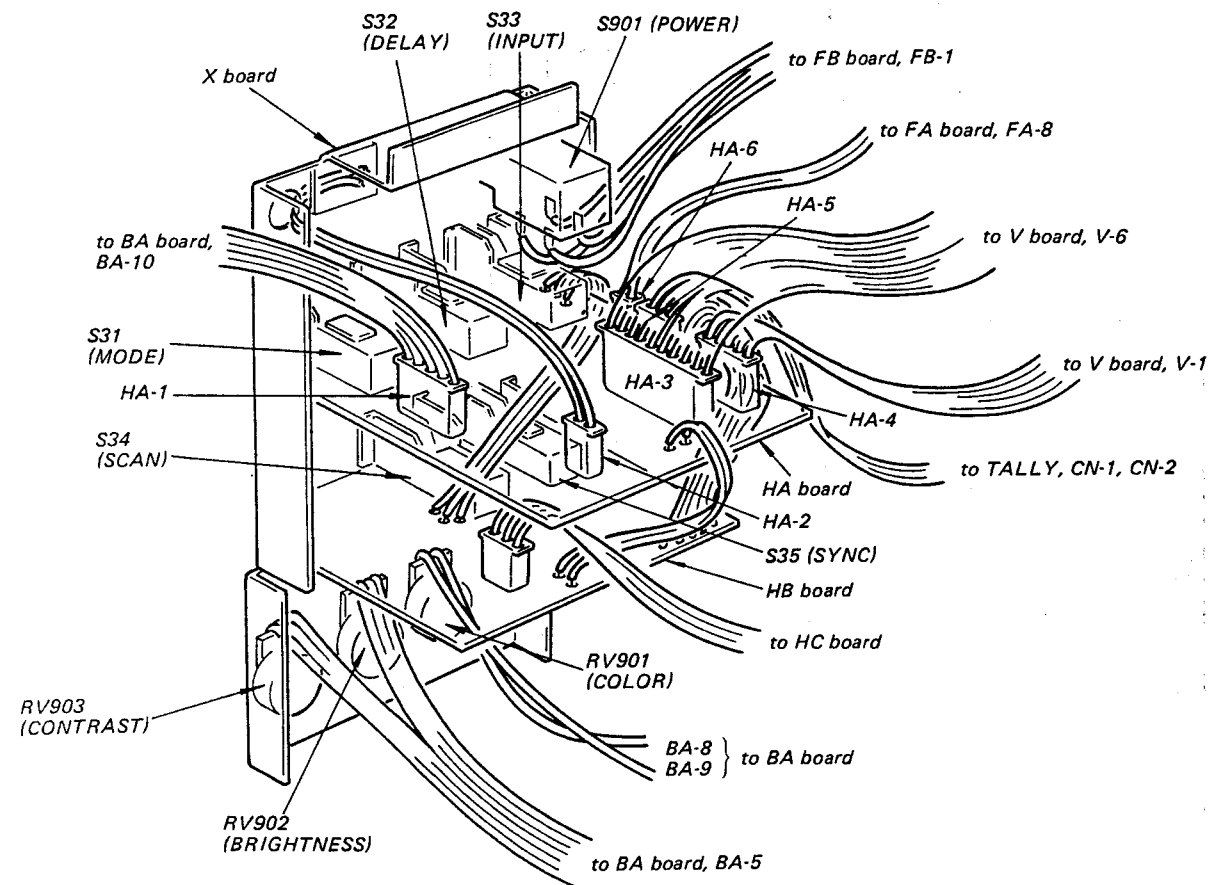
2-1. PICTURE TUBE REMOVAL



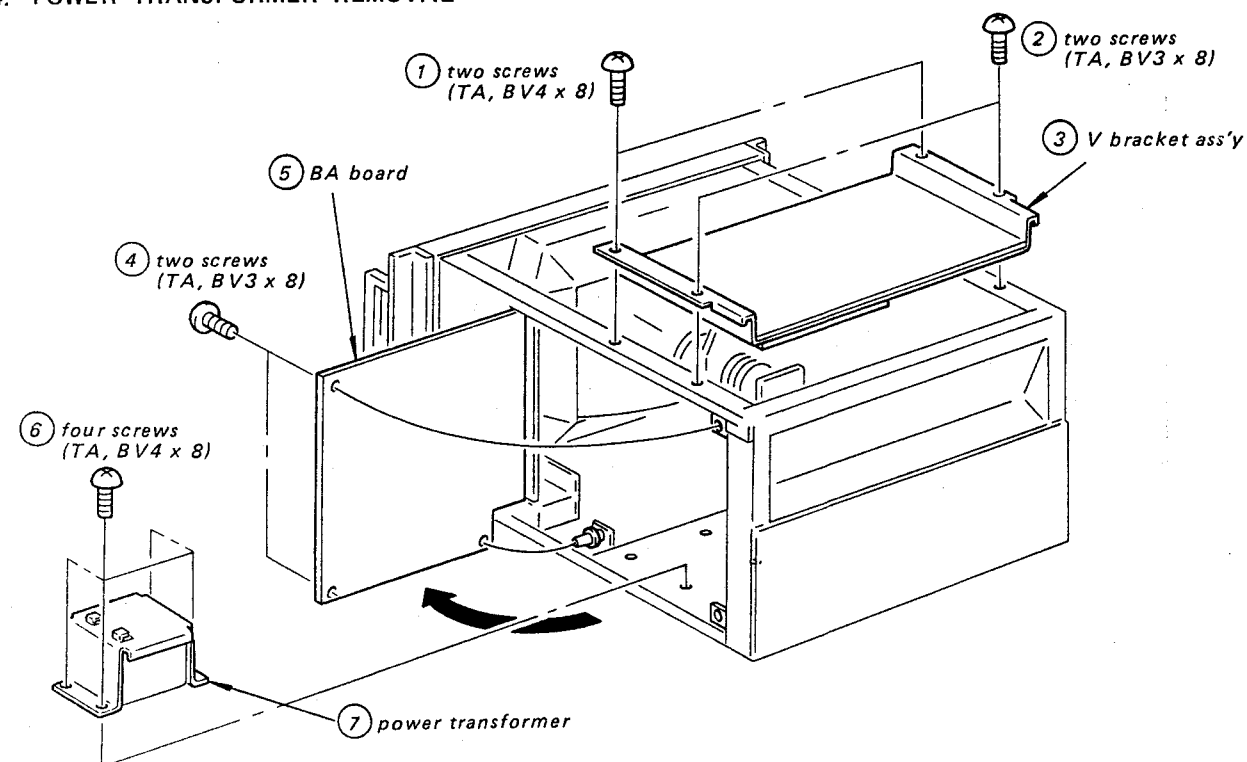
2-2. CONTROL BLOCK REMOVAL



2-3. WIRING DIAGRAM ON CONTROL PANEL

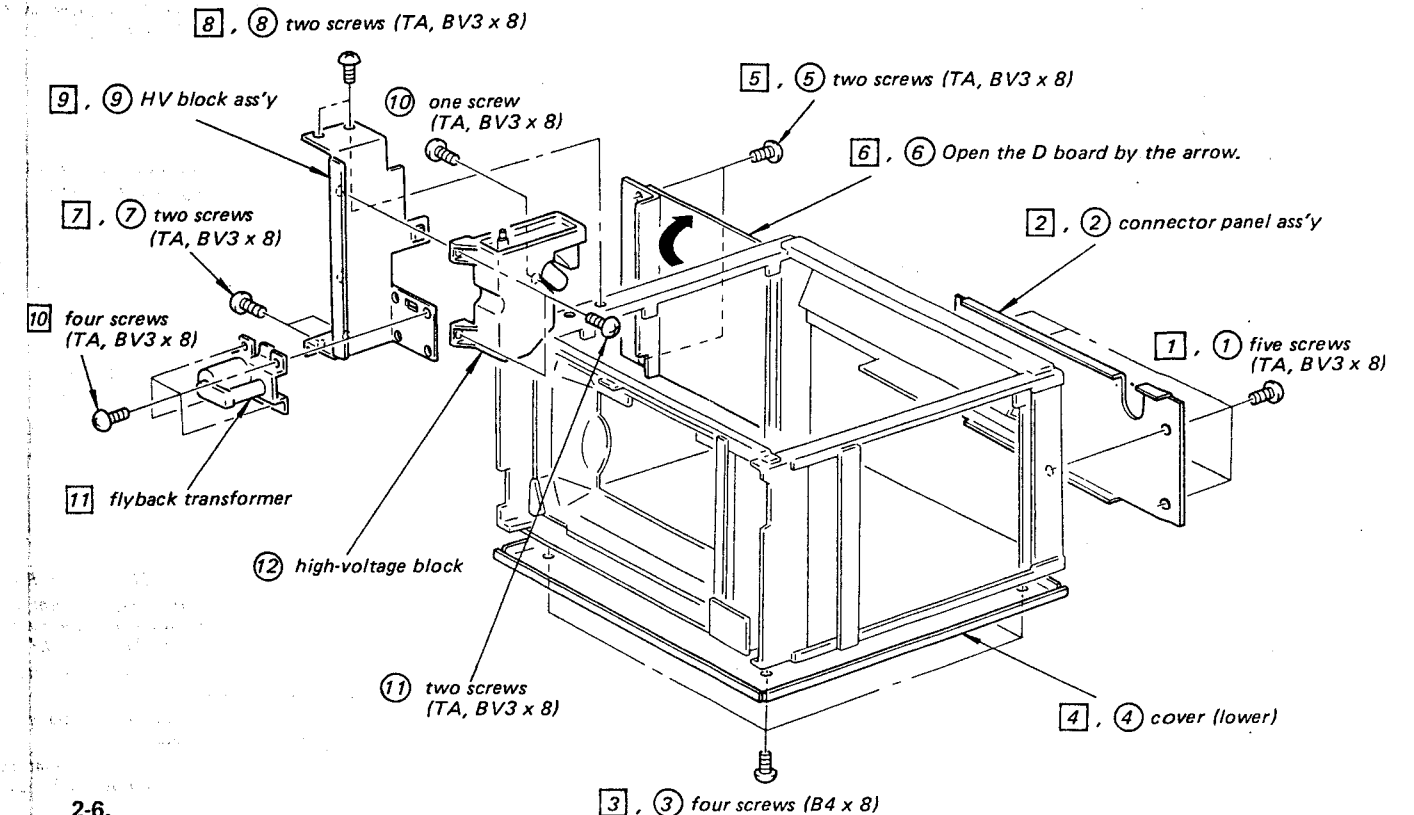


2-4. POWER TRANSFORMER REMOVAL



2-5. HIGH-VOLTAGE BLOCK FLYBACK TRANSFORMER REMOVAL

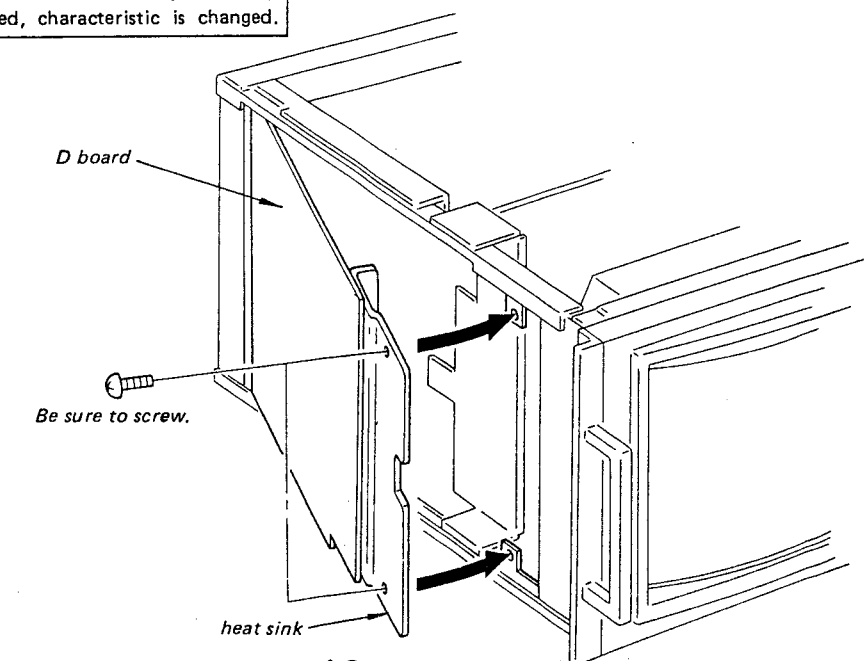
Note: High-voltage block: Remove the parts indicated by ○ in numerical order (1 - 12).
Flyback transformer: Remove the parts indicated by □ in numerical order (1 - 11).



2-6.

CAUTION

Be sure to perform that heat sink of D board is screwed to chassis before power switch is turned on. If not, earth loop of deflection circuit is changed, characteristic is changed.



SECTION 3 ADJUSTMENTS

SCC-363A-A

PVM-1 320P

PVM-1 320P

SCC-363A-A

Note:

(1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Dual-trace oscilloscope
3. Voltmeter (VOM)
4. Color-bar/pattern generator
5. Video tuner SONY Model "VTU-200" or equivalent
6. Digital multimeter
7. High tension meter.

(2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, color-bar or monoscope pattern, signal to VIDEO IN/OUT connector through video tuner.

(3) CONTROL AND SWITCH SETTINGS

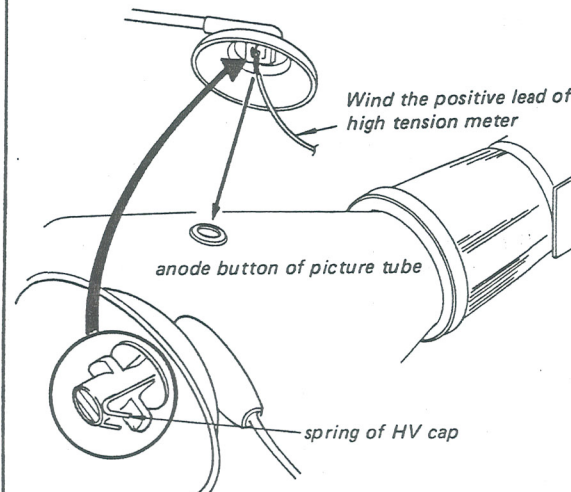
Controls and switches should set as follows when making adjustments unless otherwise noted.

CONTR control	} . . Set for best picture
BRT control	
COLOR control	
V.HOLD control	. . Set for stable picture
MODE switch	. . . AUTO
SCAN switch NORMAL

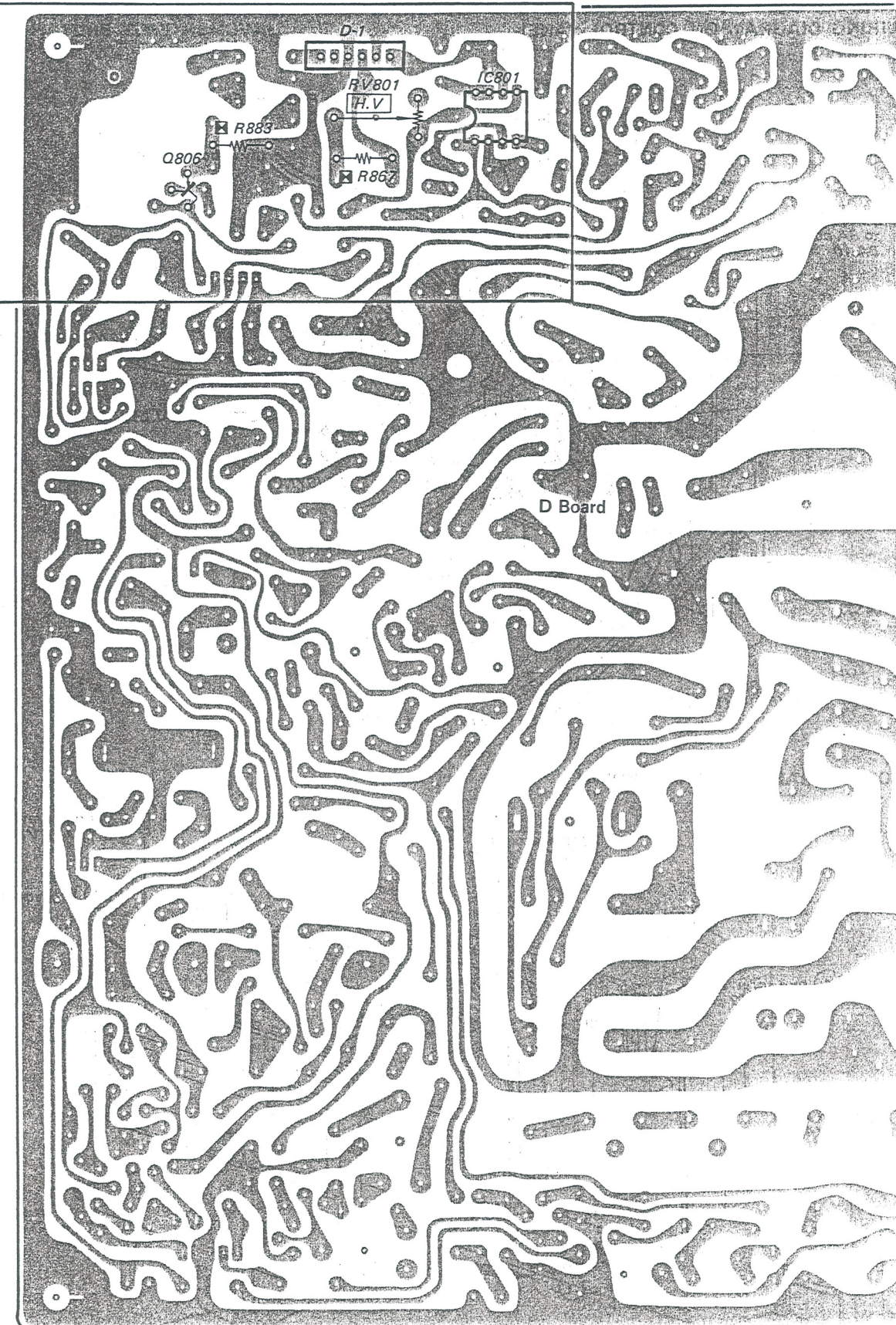
■ R883 and R867 ADJUSTMENT

When replacing the following components, make this adjustment.
Q806 · D816 · D840 · D841 · R867 · R881 · R882 · R883 · RV801, HV BLOCK (Identified by ■ mark)

- 1) Connect the positive lead of the high tension meter to the spring of HV Cap, and the negative lead to the braided wire connected to the picture tube earth spring.



- 2) Connect a temporary resistor (1 kΩ) for R867.
- 3) Turn the variable resistor RV801, confirm that the Hold down circuit operates when the reading of the high tension meter is 21.2 – 23.7 kV.
- 4) If steps 1 to 3 are not satisfied, select the resistance value of R883 and repeat above steps.
- 5) Turn the variable resistor RV801 for maximum voltage on the high tension meter.
- 6) Select the resistance value of R867 so that the reading of the high tension meter is 20.2 – 21.0 kV.
- 7) After the adjustment, turn the variable resistor RV801 for 20 kV on the high tension meter.



SECTION 4
DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM

A

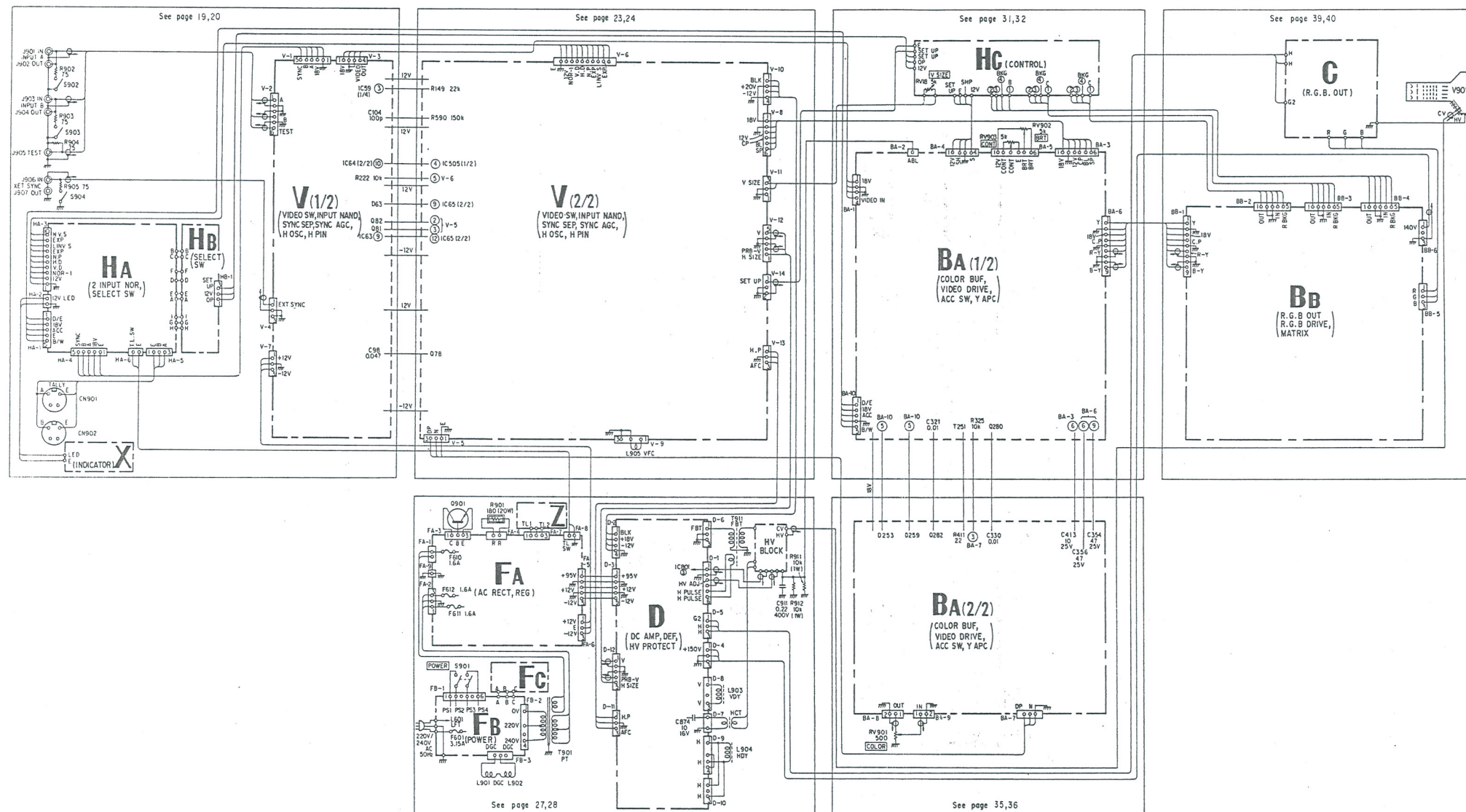
B

C

D

E

F



4-2. MOUNTING AND SCHEMATIC DIAGRAMS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F}$
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega : 1000\Omega$, $\text{M}\Omega : 1000\text{k}\Omega$
- \square : nonflammable resistor.
- \triangle : internal component.
- \square : panel designation.
- The components identified by \blacksquare in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by \blacksquare , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by \blacksquare and repeat the adjustment until the specified value is achieved. (Refer to R883 and R867 adjustment on page 13 and 14).

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (\blacksquare)	Adjustment (\blacksquare)
Q806, D816, D840 D841, R867, R881 R882, R883, RV801 HV BLOCK	R883 and R867 adjustments

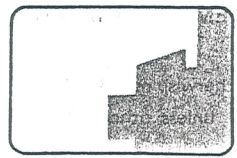
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 $\text{M}\Omega$ digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Voltages are taken with the MODE switch set at AUTO position.
- No parentheses: common value.

	SCAN Sw.	DELAY Sw.
< > :	ON	NORMAL
<< >> :	ON	H
() :	ON	V
(()) :	ON	H/V
[] :	OFF	NORMAL
[[]] :	OFF	H
< > :	OFF	V
[] :	OFF	H/V

- \square : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Switch

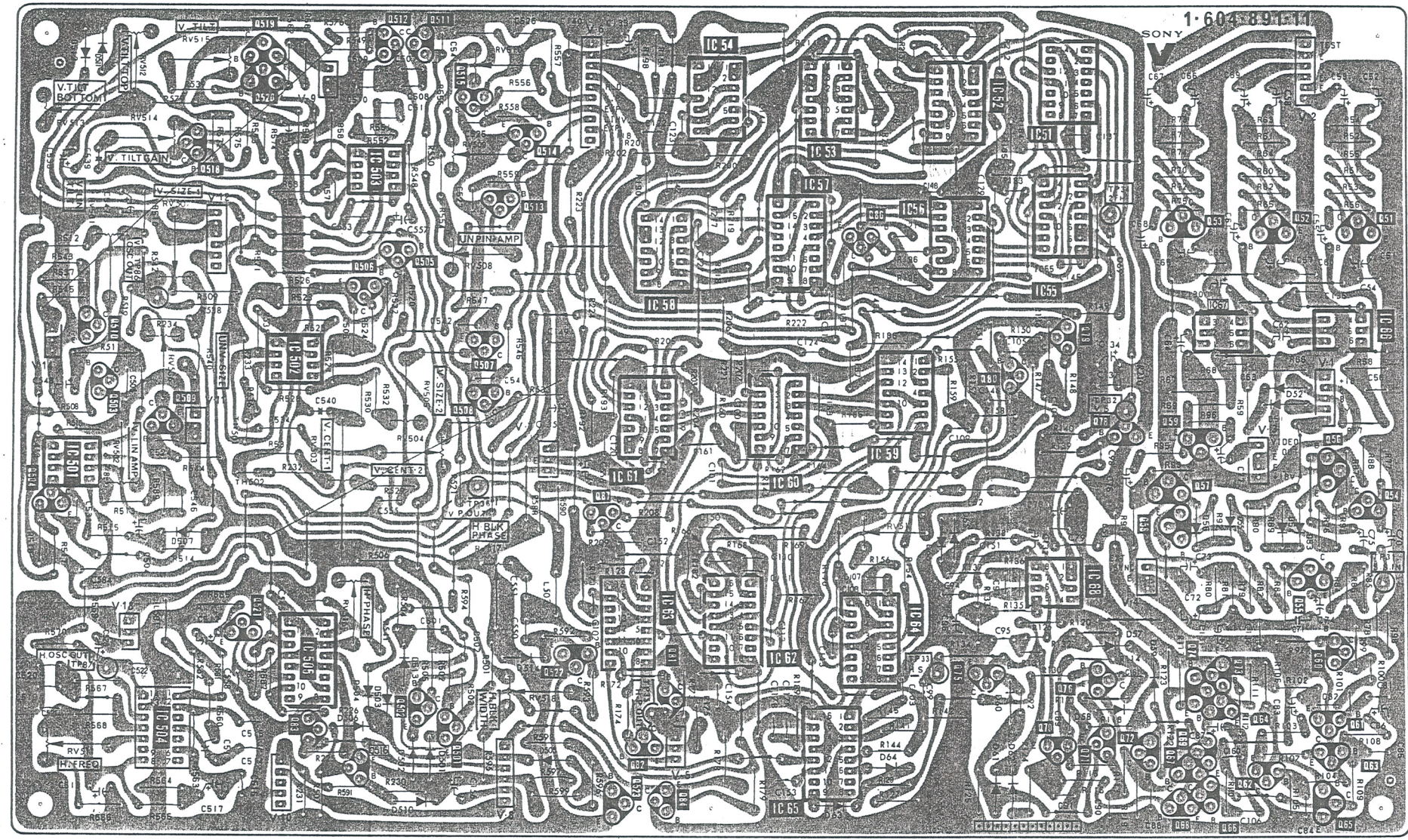
Ref. No.	Description	Position
S11	SCREEN R	ON
S12	SCREEN G	ON
S13	SCREEN B	ON
S14	OPERATE/SET UP	OPERATE
S31	MODE	AUTO
S32	DELAY	NORMAL
S33	INPUT	CH-A
S34	SCAN	ON
S35	SYNC	INT
S601	VOLTAGE SELECT	220 V
S901	POWER	ON
S902	CH-A 75 Ω	OFF
S903	CH-B 75 Ω	OFF
S904	EXT SYNC 75 Ω	OFF

A B C D E F G

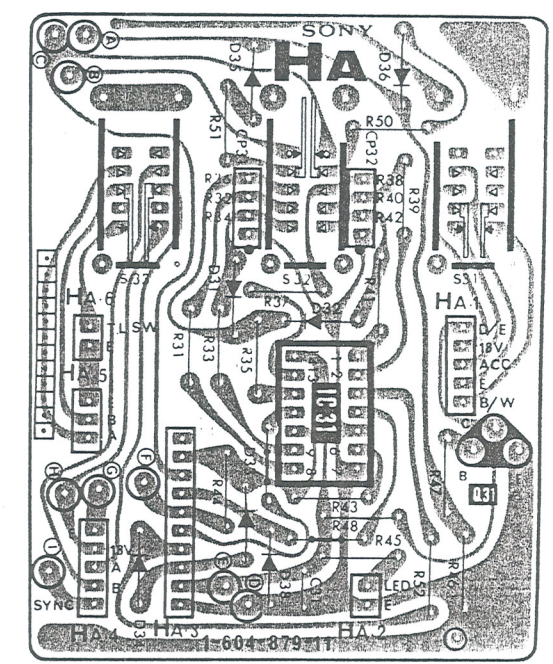


— V_{1/2} Board —

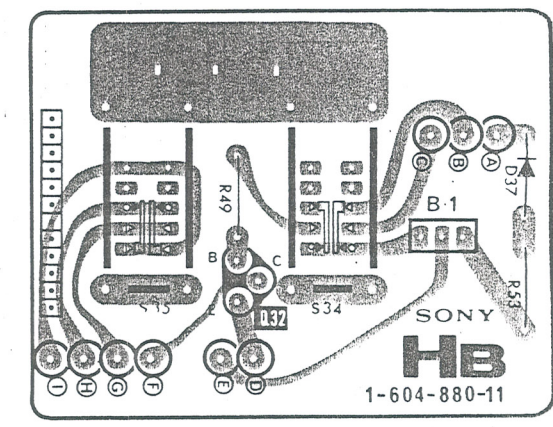
Q	504	510		518	519	IC502	512	511		515	513	514		IC58	IC54		IC53			IC52			IC51				53	59	73	52	51		Q					
IC		503		509	520	IC505	506	IC503	505		507	508		87	IC61	81		IC57	86	IC59	IC56	75	80	IC68	79	76	78	57	58	64	IC67	62	55	56	60	63	65	IC
	IC501		IC504		521	83	516		502	501			522	523	IC63	84				IC65	IC64			70		71	72	67	68	69	66							
D		512	511				504	513	502	501		514	505																								D	
				507			506	503	510																													
ADJ	RV513	RV501	RV512	RV507	RV515		RV503	RV516	RV505	RV504	RV509	RV510	RV518					RV51																			ADJ	
	RV511	RV502	RV514	RV506							RV508	RV517																										



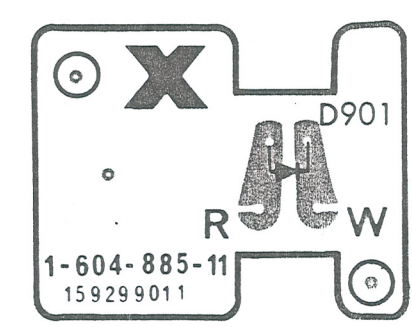
— HA Board —



— HB Board —



— X Board —



V^{1/2} VIDEO SW, INPUT NAND
SYNC SEP, SYNC AGC,
H OSC, H PIN

HA 2 INPUT NOR,
SELECT SW

HB (SELECT SW)

X (INDICATOR)

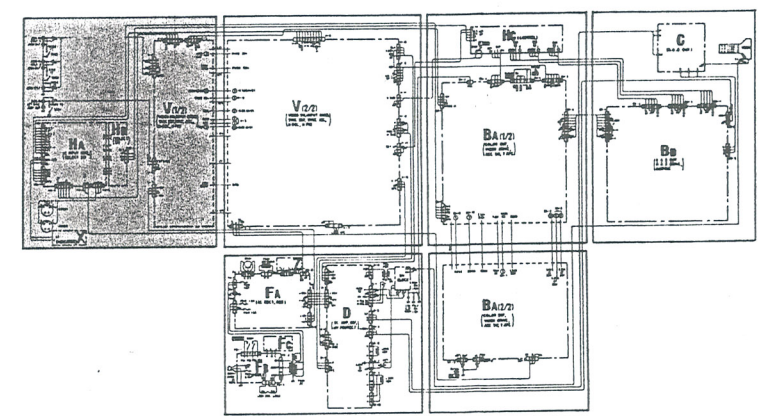
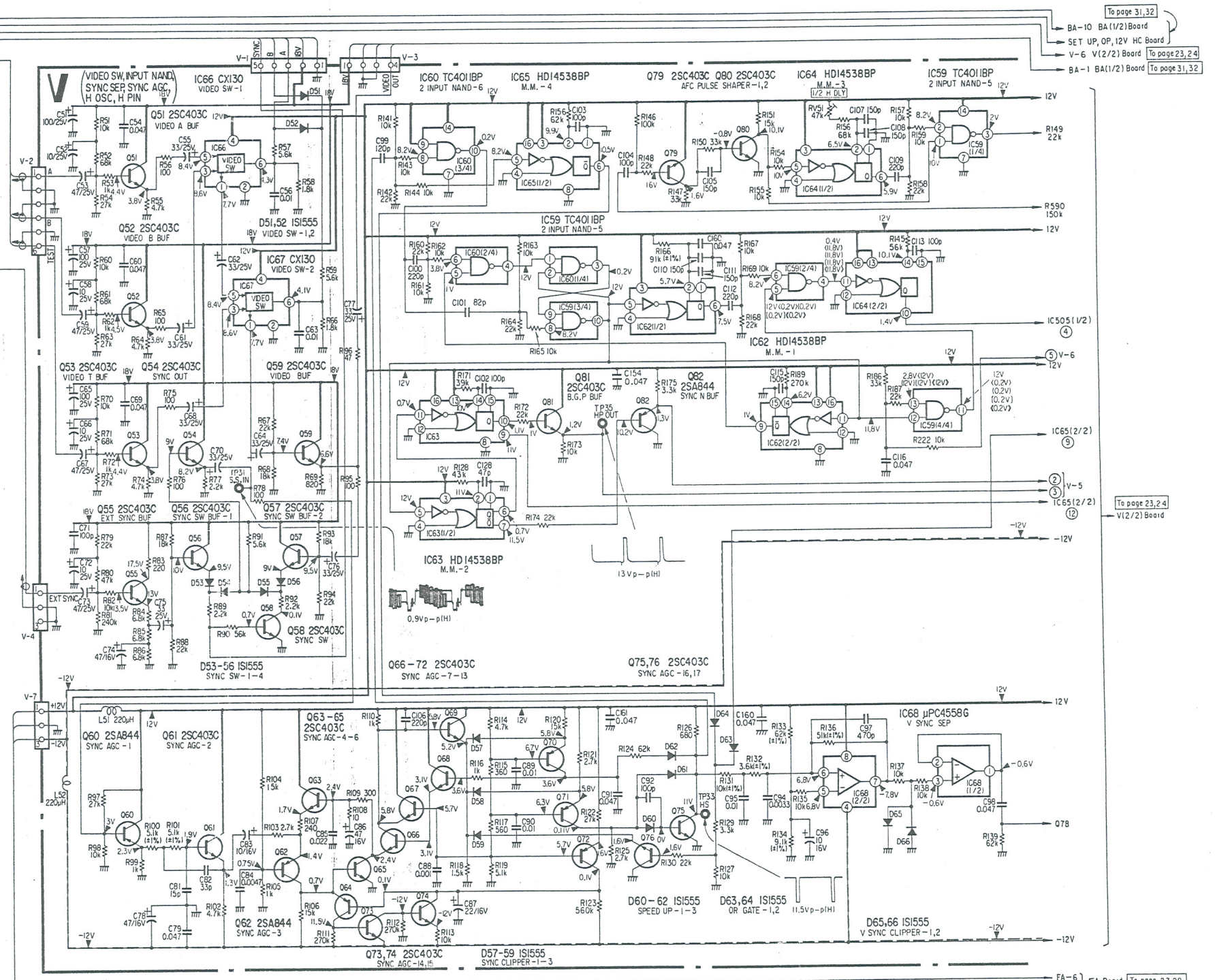
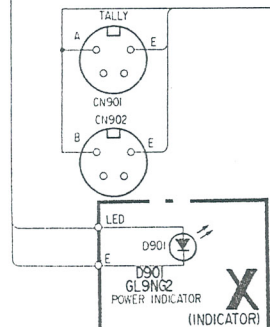
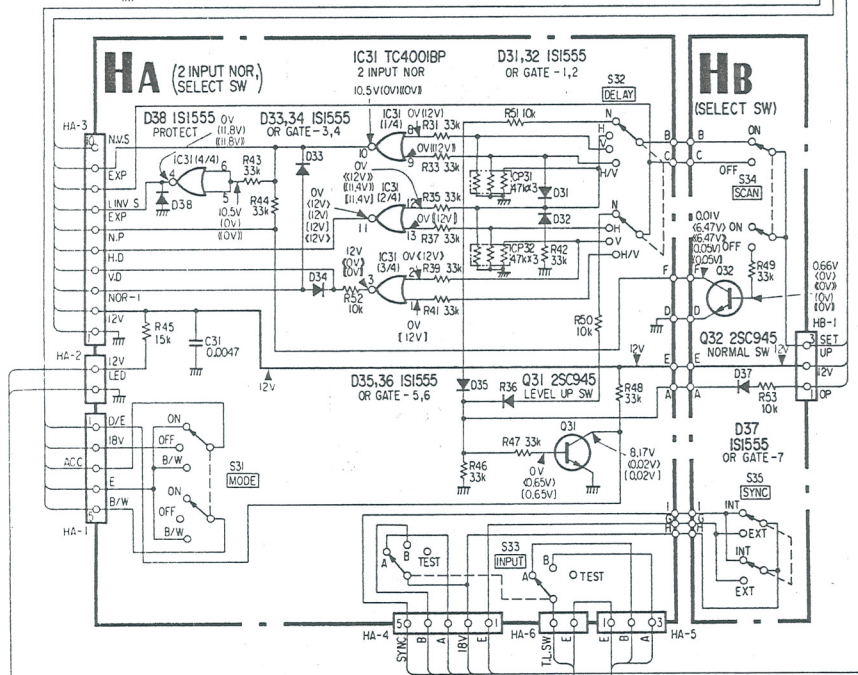
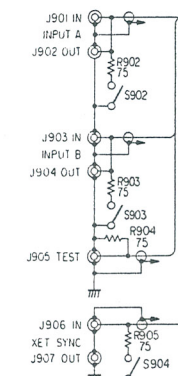
1

2

3

4

5



A

B

C

D

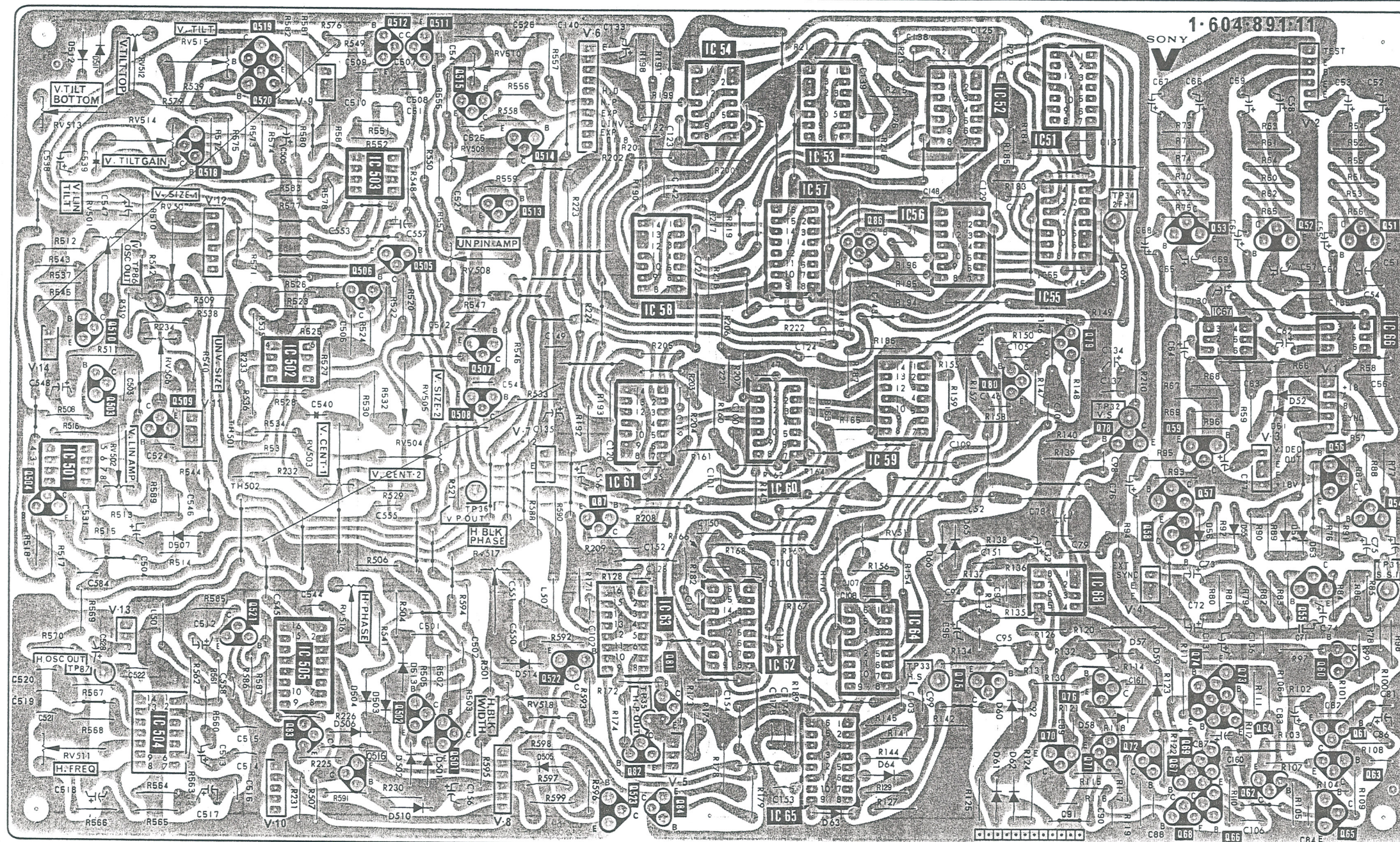
E

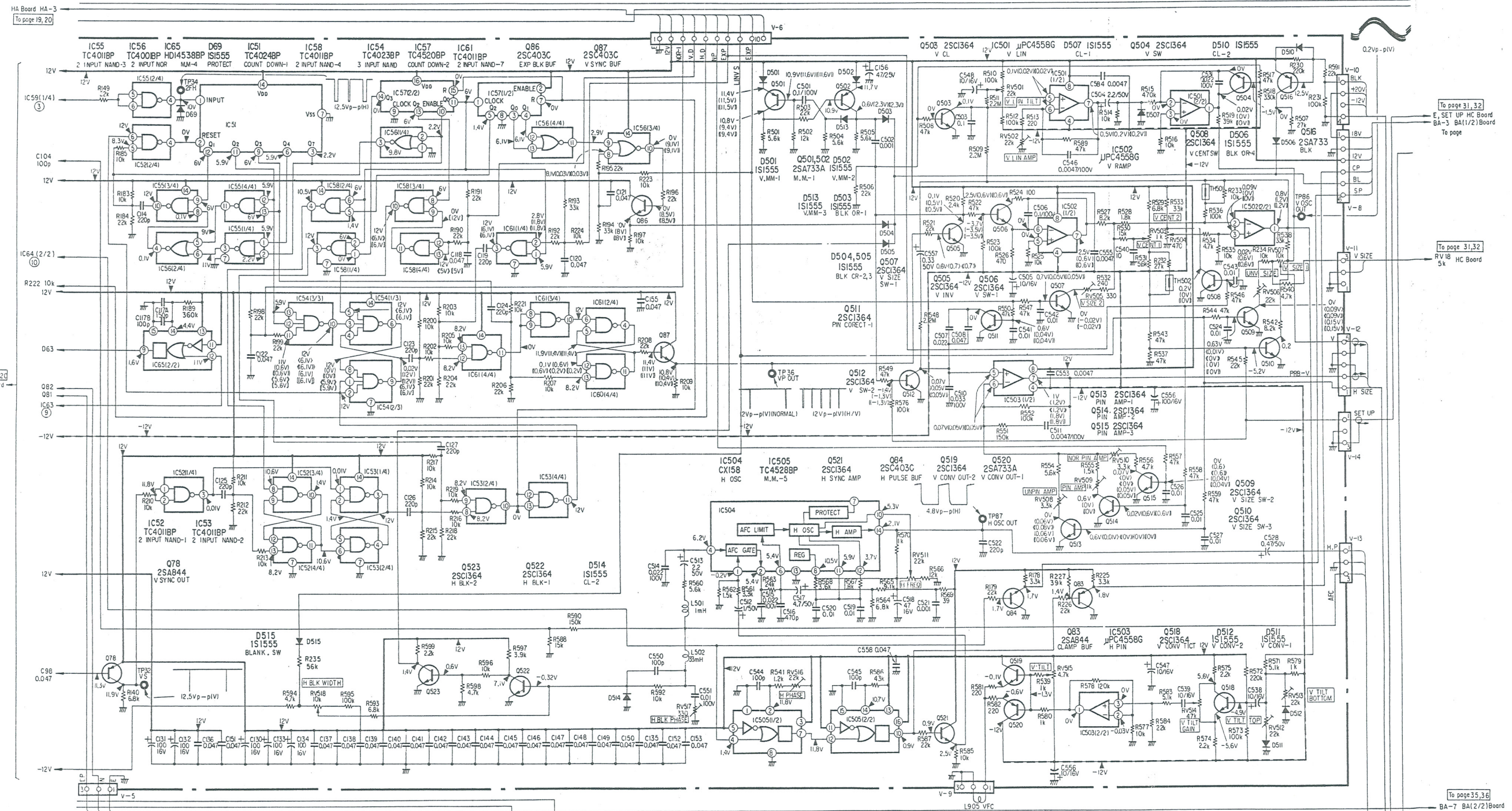
F

G

— V^{1/2} Board —

Q IC	504	510 503	509	518	519 520	IC502	IC505	506	512 IC503	511	515	513	514	IC58	IC54	IC57	IC53	86	IC59	IC52 IC56	80	IC51 IC55	79	76	78	53	59	73	52	51	IC66	54	Q IC		
	IC501		IC504		521	83		516	505	502	501	508		522	87	IC61 82	81	84	IC62	IC60			IC68	75			57	58	74	64	IC67	56	61	60	54
																							70	71	72	67	69	66	62	55	63	65			
D		512	511					504	506	513 503	502	501		514	505							66	65			69				52				D	
				507																	63	64			57	58	59	56	55	54	53				
ADJ	RV513	RV501	RV512	RV507	RV515			RV503	RV516	RV505	RV504	RV509	RV510	RV518																				ADJ	
	RV511	RV502	RV514	RV506								RV508	RV517						RV51																



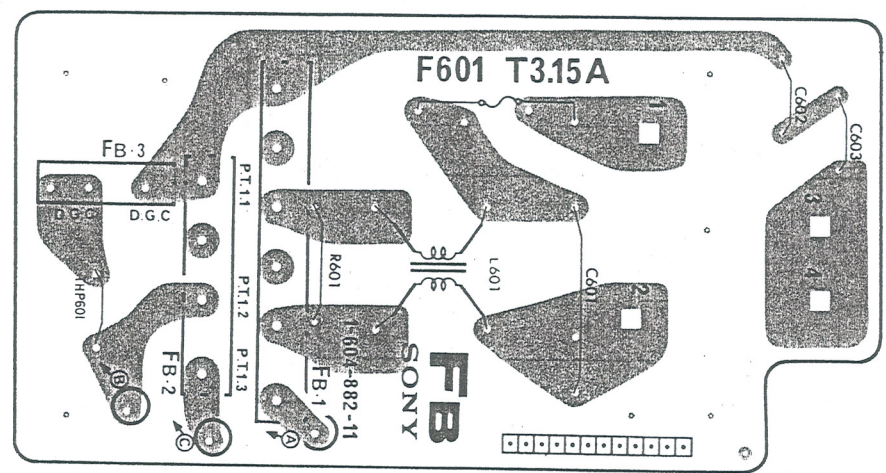


- FA Board -

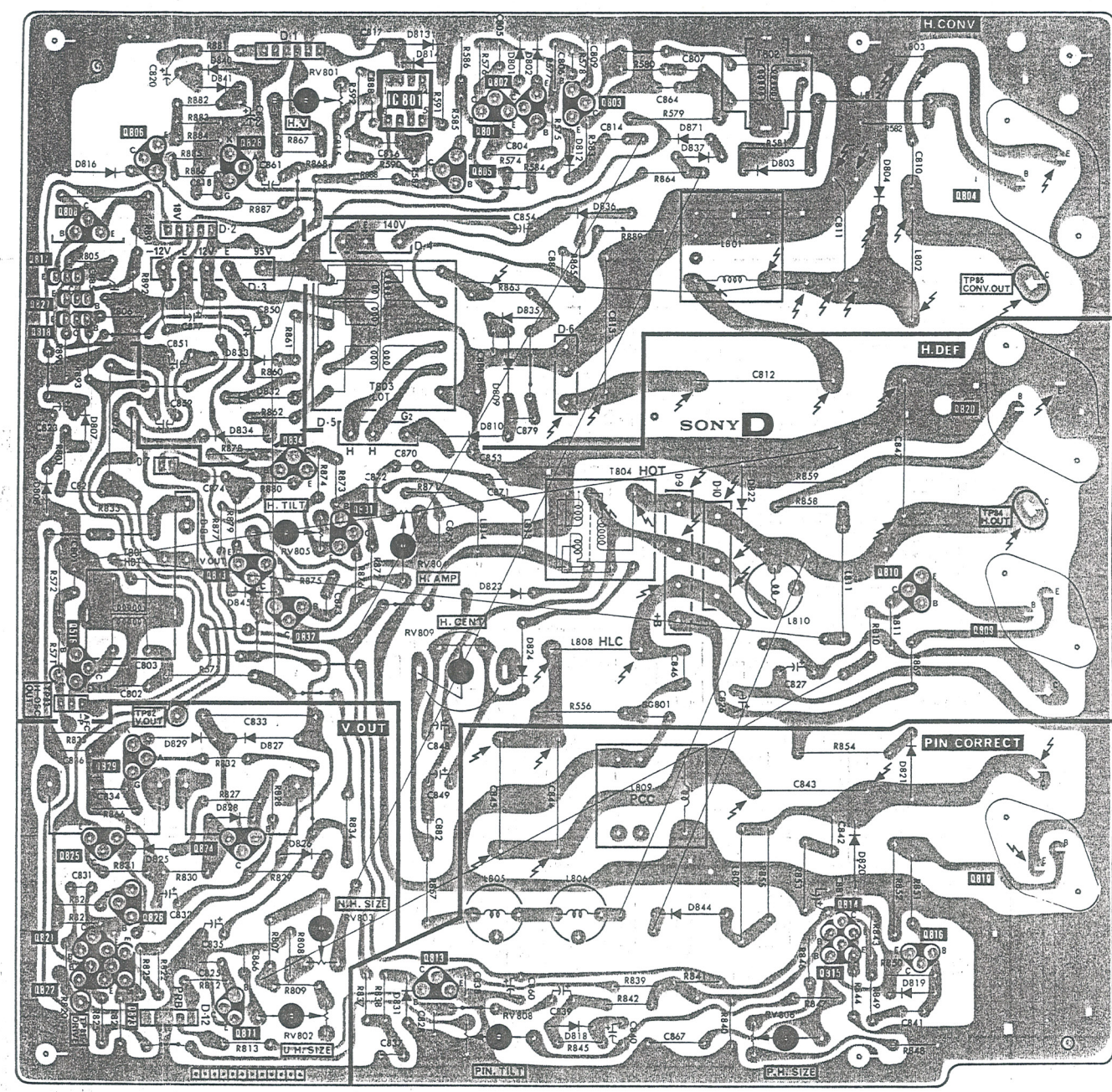


Q, IC	D	ADJ
610		RV610
611	610	
613	611	
615	612	
641	640	RV621
625		RV620
627	625	
626	627	
622	624	
621	622	
620	626	
623		
620		
Q, IC	D	ADJ

- FB Board -

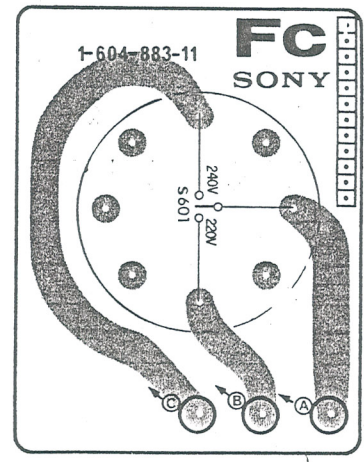


- D Board -

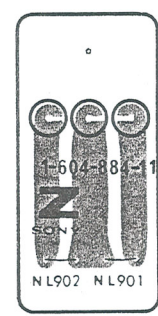



Q, IC	D	ADJ
813	801 802	
814	801 802	
840	801 802	
841	801 802	
806	806	RV801
828	805	
805	812 837	
804	816 803	
	804	
808	836	
817		
827	835	
818	835	
	833 809	
820	832	
834	807 810	
	808 802	
831		RV805
833	810	RV804
832	845 823	
516	809	
	824	RV809
829	829 827	
	821	
825	828	
824	820	
	825 826	
819		
826	814	
	844	RV803
821	815 816	
823		
822	813	
871	819	
	831	
	818	RV802
		RV808
		RV806
Q, IC	D	ADJ



- FC Board -





- Z Board -




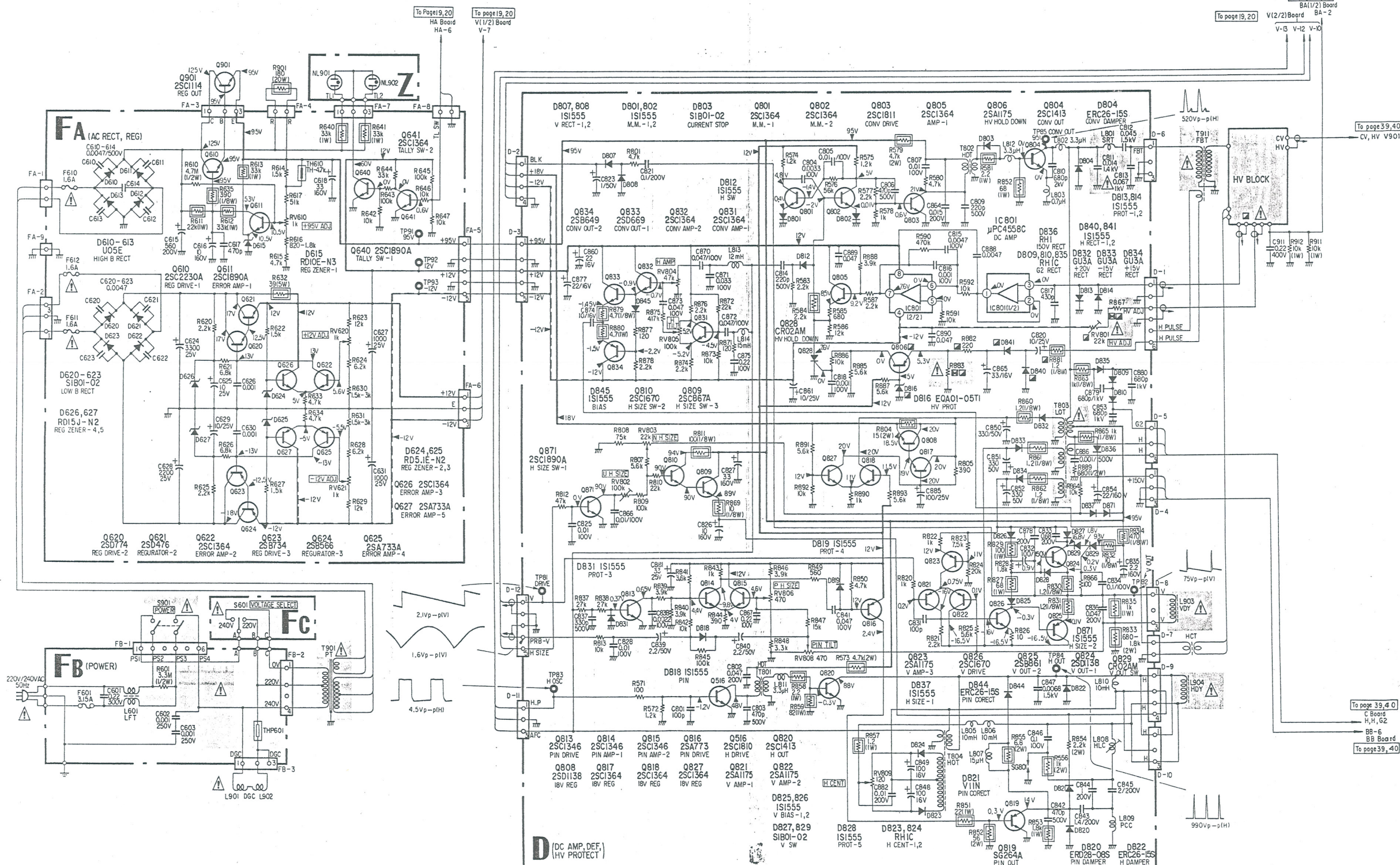
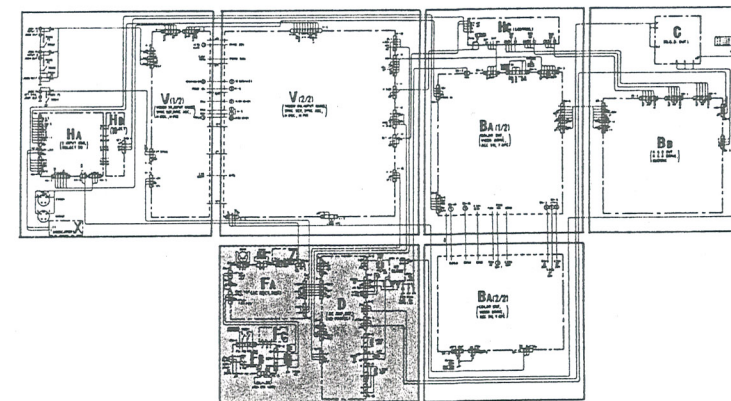
Note: • The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

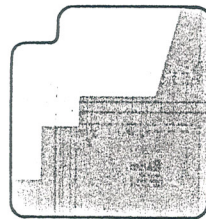
• When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved. (Refer to R883 and R867 adjustment on page 13 and 14.)

When replacing the part in below table, be sure to perform the related adjustment.

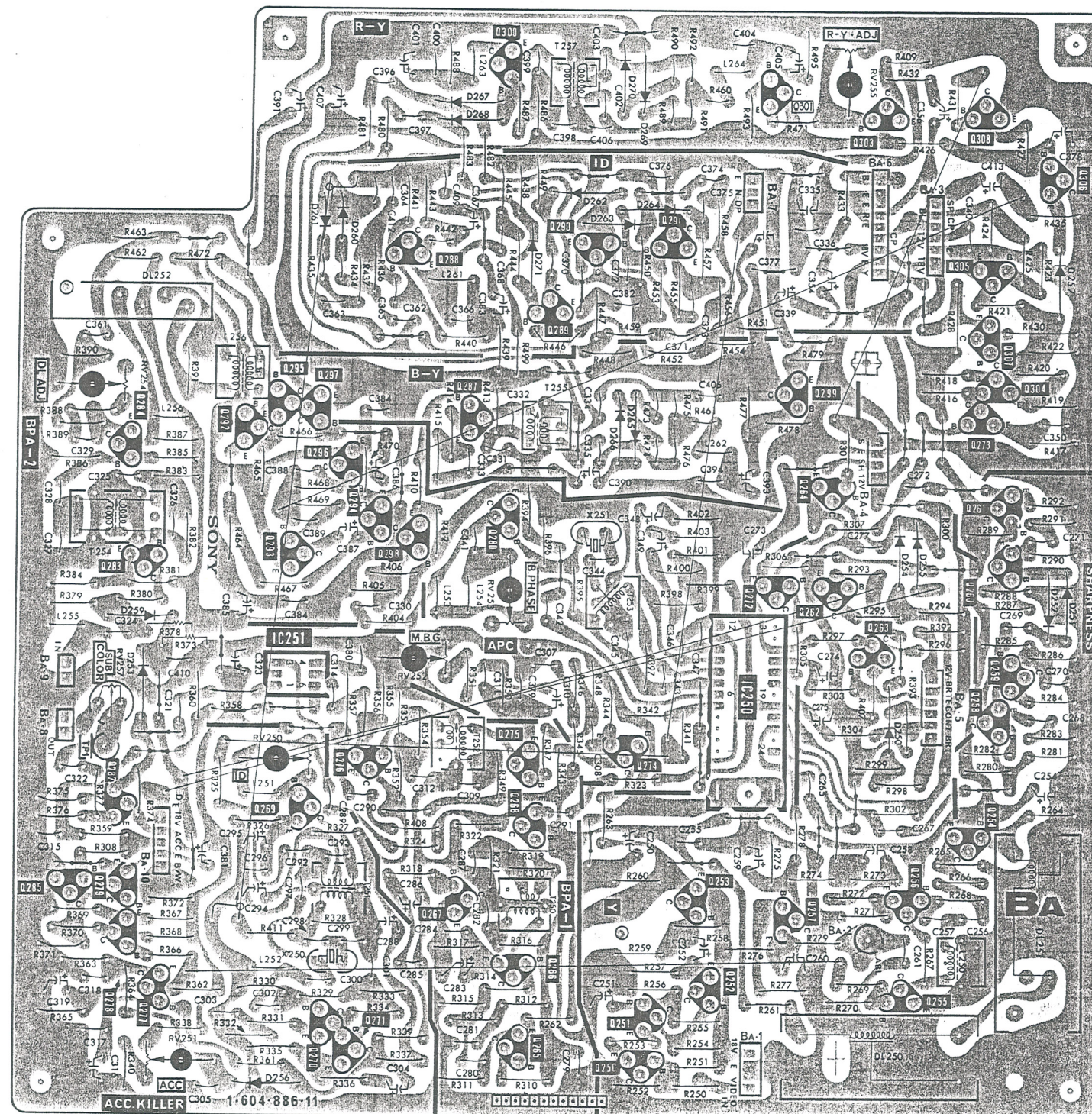
Part replaced ()	Adjustment ()
Q806, D816, D840 D841, R867, R881 R882, R883, RV801 HV BLOCK	R883 and R867 adjustments

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

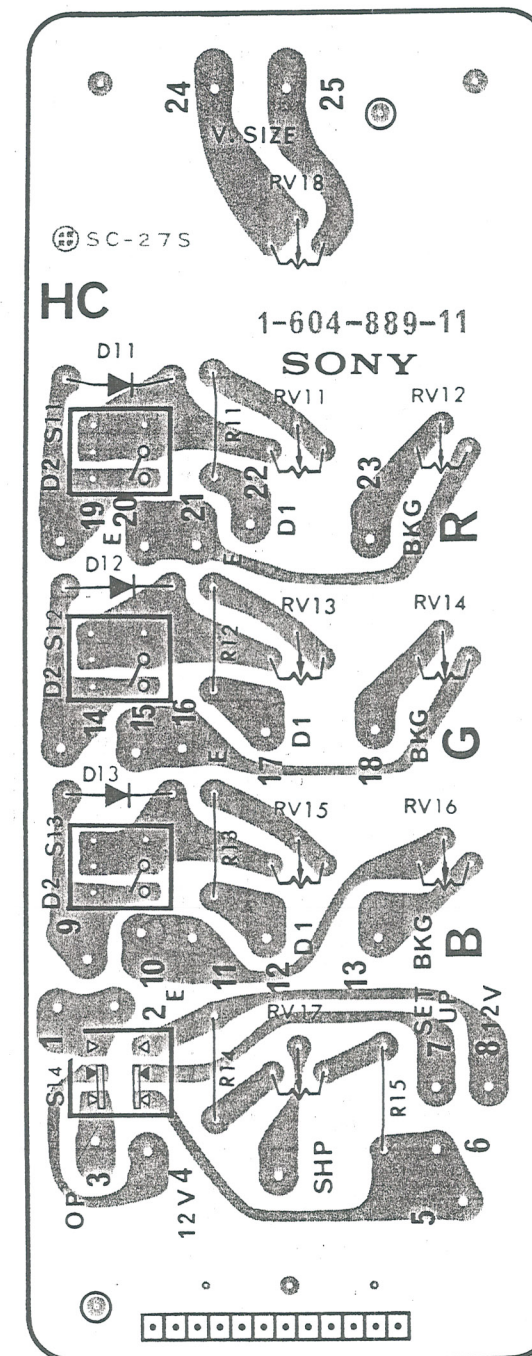




— BA ½ Board —



Q, IC	D	ADJ
300	270	
301	269	RV25
303 308	267 268	
306	262 264 260	
290 291	261 263	
288	271	
305	257	
289		
307		
304 299		RV254
295 297		
287 273	266	
292	265	
284		
296		
264		
261		
294 280		
298	254 255	
293		
283 260		
272 262	251	RV253
	252	
	259	
263		
IC251 259	253	RV252
IC250		RV257
258		
	250	
274		
276 275		RV250
282 269		
268		
254		
285 279		
267 253 256		
257		
278		
266		
277 252		
255		
251		
270		
271 265		
250		RV251
	256	
Q, IC	D	ADJ



BA 1/2 COLOR BUF
VIDEO DRIVE
ACC SW, Y APC

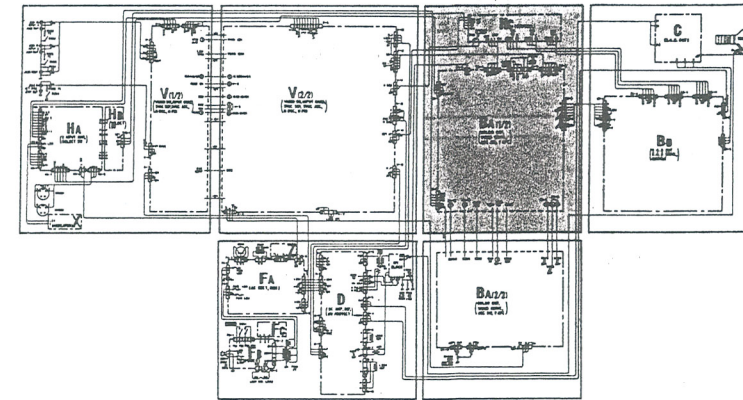
Hc (CONTROL)

SCC-363A-A

PVM-1320P

PVM-1320P

SCC-363A-A



1

2

3

4

5

To page 19, 20
HA Board HA-1
HB Board HB-1
V12/21 Board V-3
To page

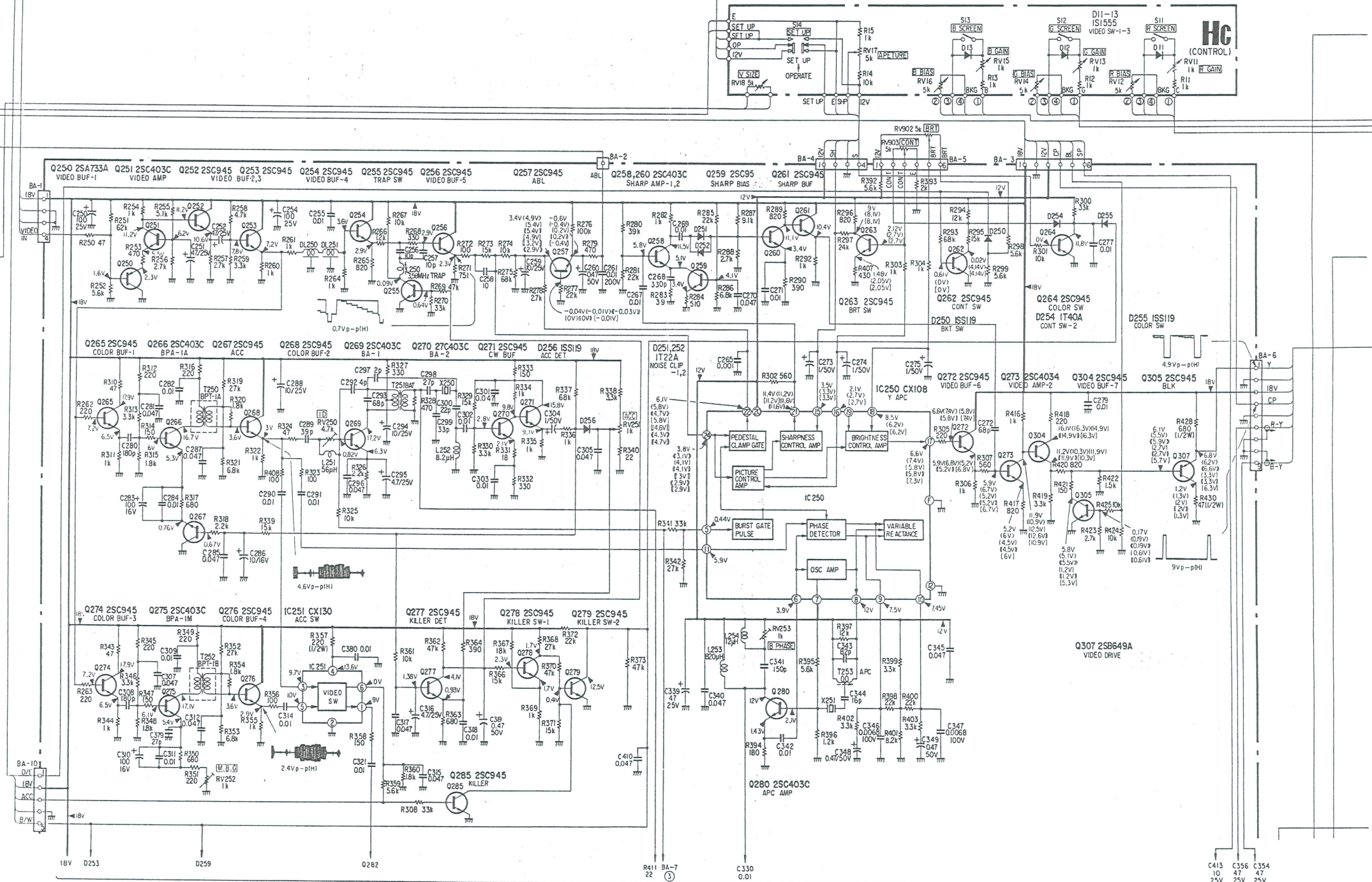
To page 23, 24
V12/21 Board V-14
To page

HY BLOCK
To page 27, 28

To page 23, 24
V12/21 Board V-11

To page 39, 40
BB-4
BB-3
BB-2

To page 39, 40
BB-1 BB Board



A

B

C

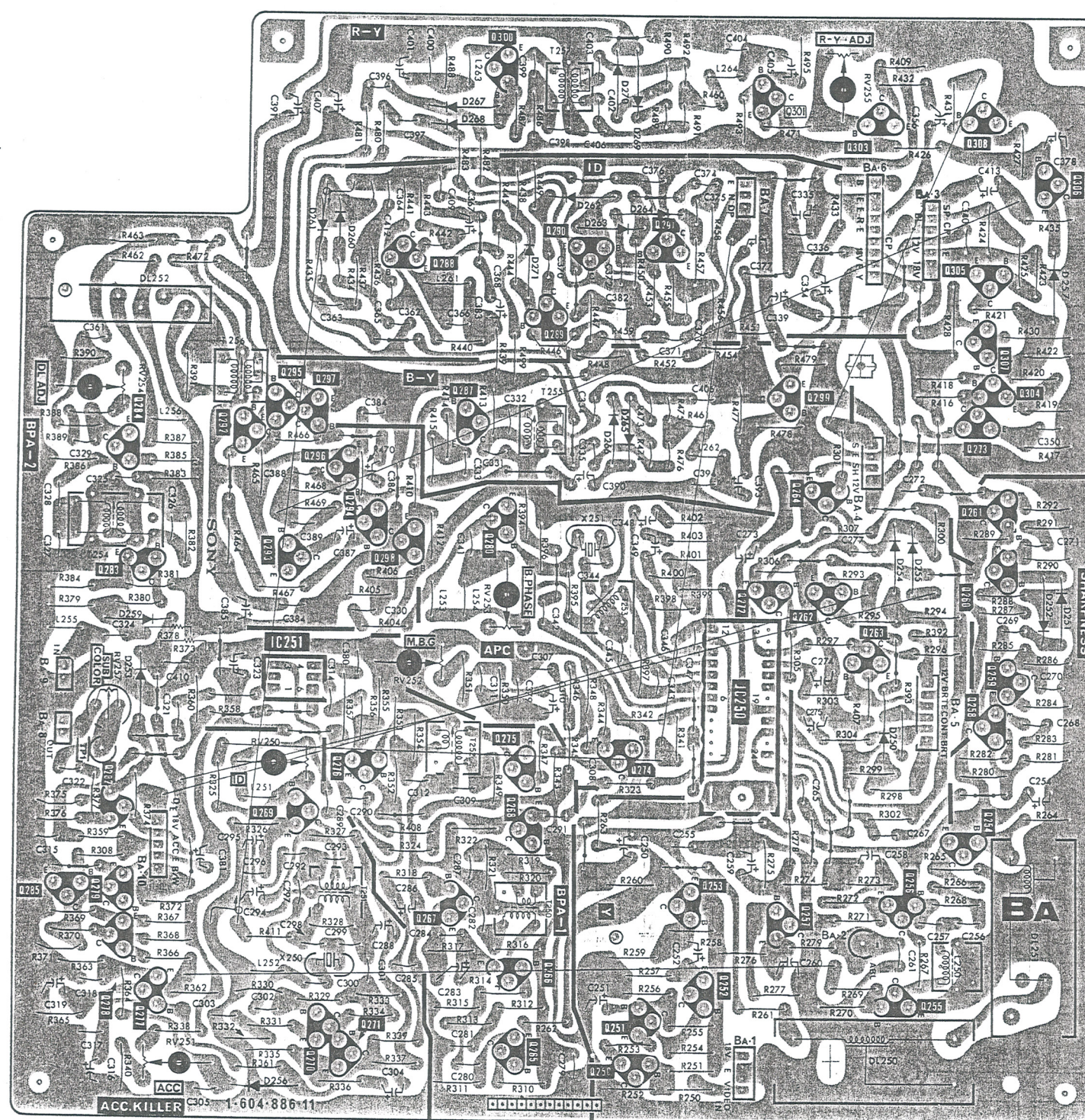
D

E

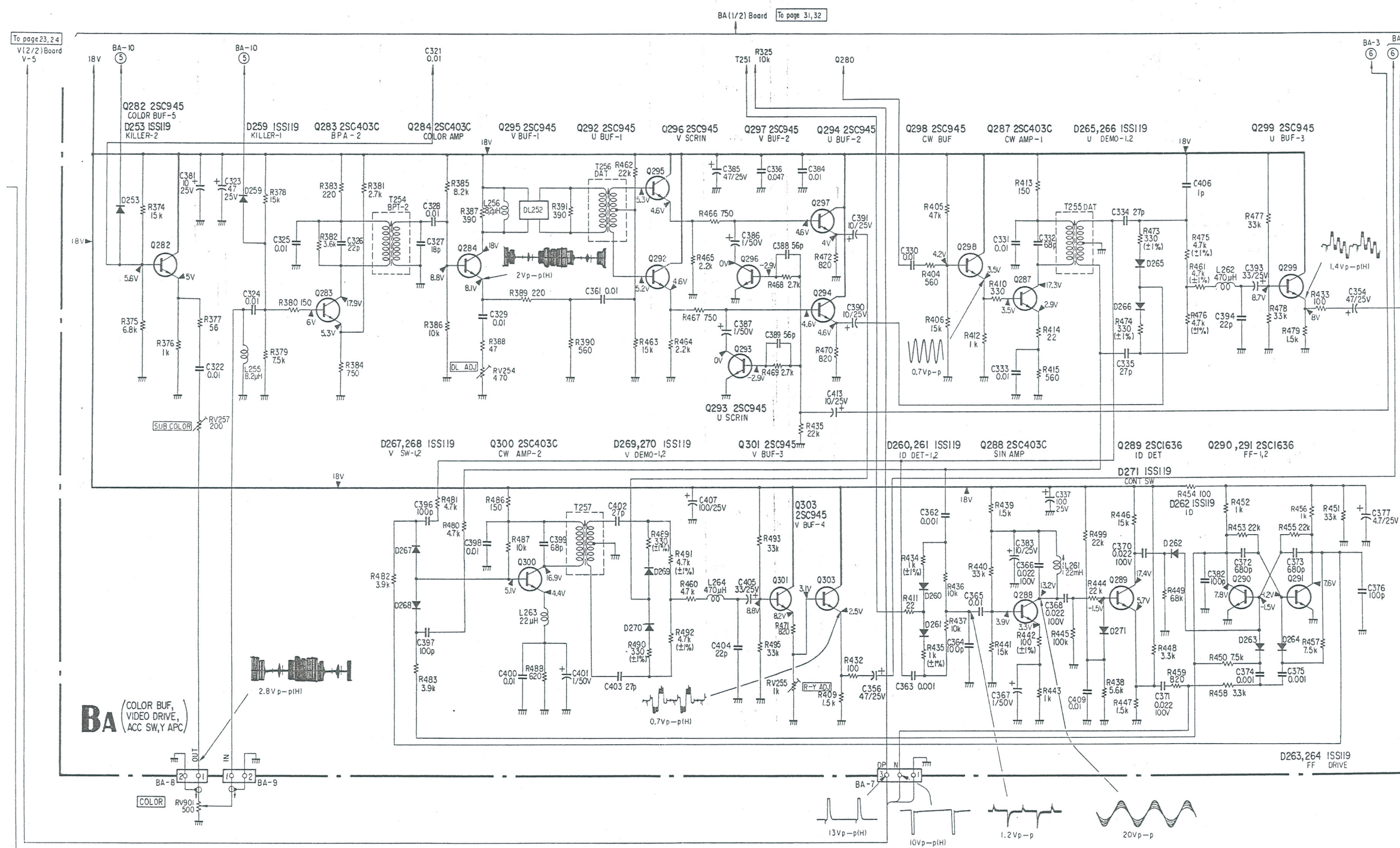
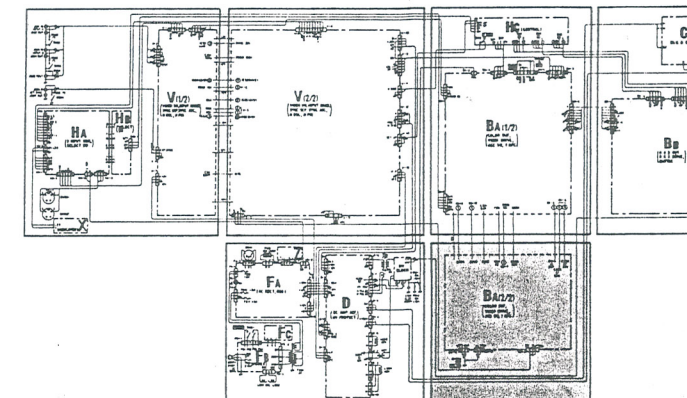
F

G

— BA 72 Board —

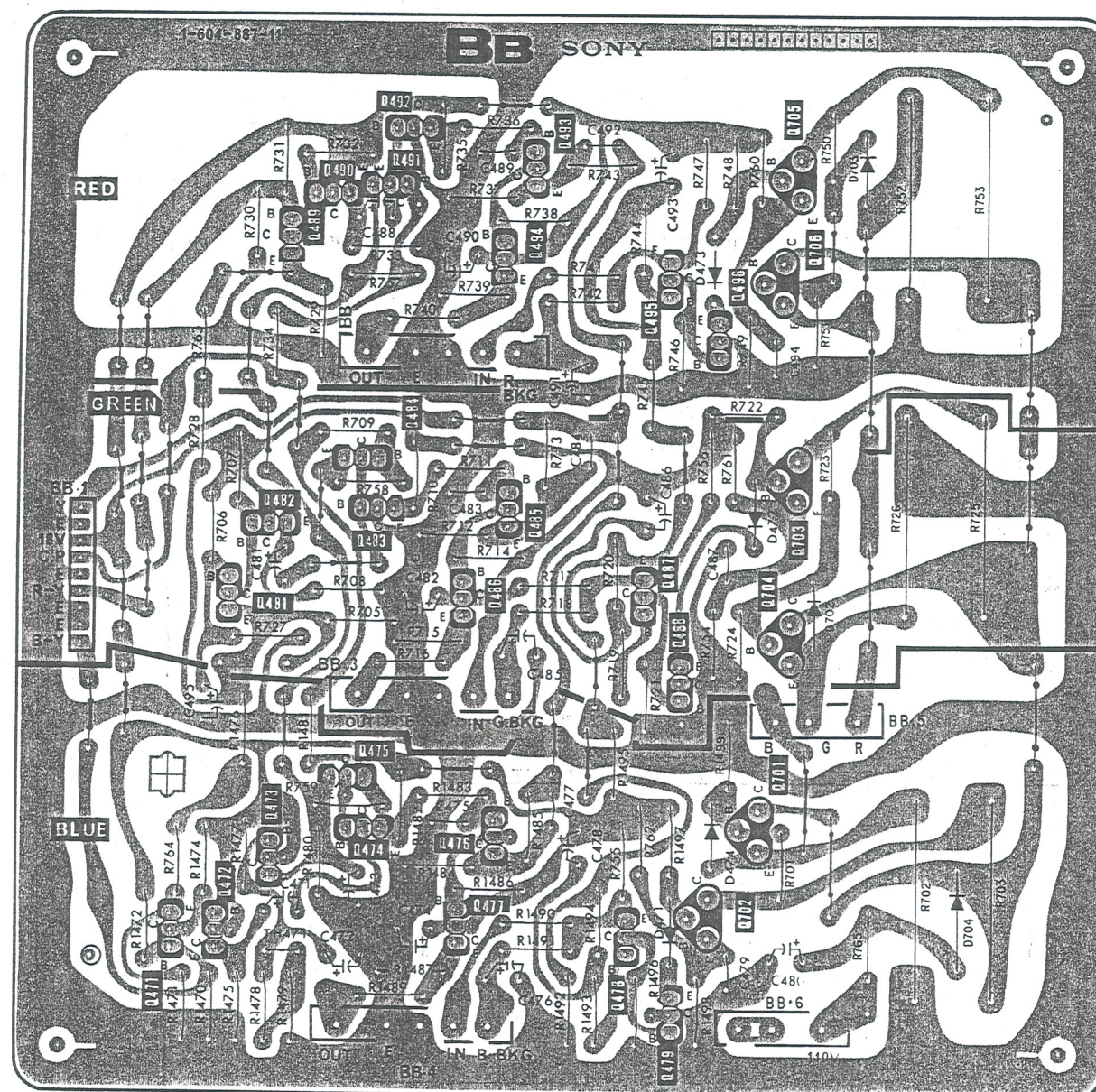


Q, IC	D	ADJ
300	270	RV255
301	269	
303 308	267 268	
306	262	RV254
	264 260	
290 291	261 263	
288	271	
305	257	RV253
289		
307		
304		
295 297	266	RV252
287 273	265	
292		
284		
296	264	RV251
294 280	261	
298	254 255	
283	251	
272 262	252	RV250
	259	
263		
IC251 259	253	
IC250	250	RV250
258		
276 275	274	
282 269	268	
254		RV250
285 279	252	
267 253 256	251	
278	250	
266		RV250
277 252		
270		
271 265		
250		RV250
	256	
Q, IC	D	ADJ

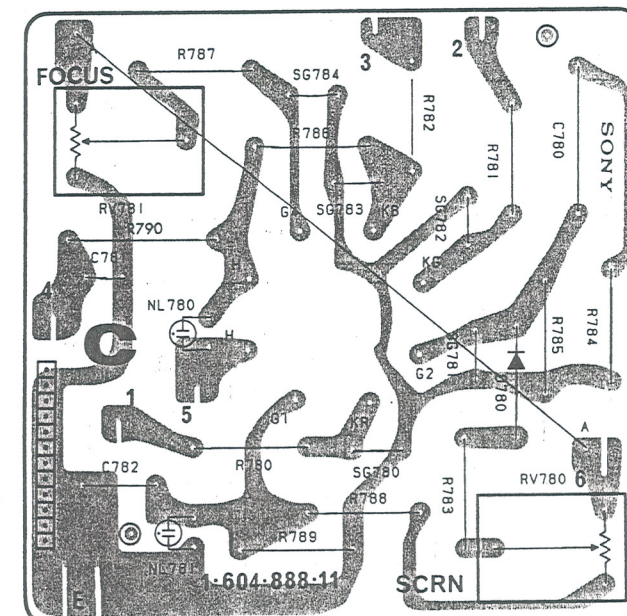


— BB Board —

— C Board —

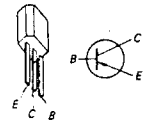


Q, IC	D
492	
493	
490 491 705	703
489	
494	
495 706	473
496	
484	703
483 485	
482	472
481 486 487	
704	702
488	
475	
474 476 701	474
473	
702	70
471 472 477 473	471
479	
Q, IC	D

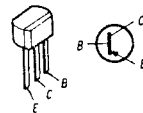


4-3. SEMICONDUCTORS

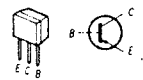
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2SA1027R



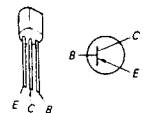
2SA1115



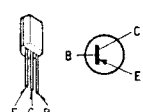
2SA1175



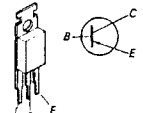
2SA684
2SA733
2SA773



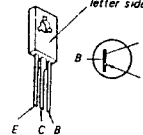
2SA844



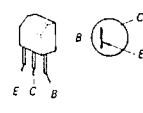
2SB566A
2SB858
2SB861



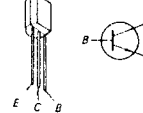
2SB649
2SB649A



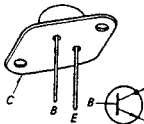
2SB734



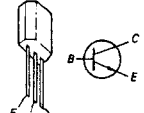
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2SC1364



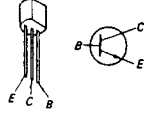
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2SC1413A



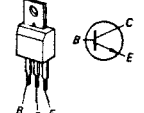
2SC1636
2SC403C



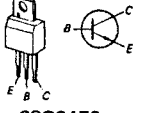
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2SC1811
2SC1815
2SC1890A
2SC2383
2SC2603
2SC945



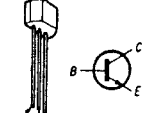
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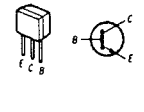
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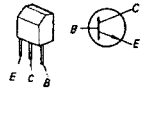
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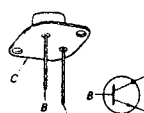
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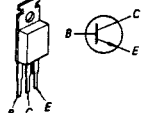
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2SD774



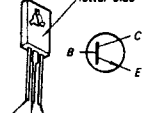
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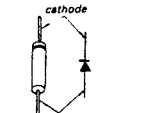
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2SD1138
2SD476A



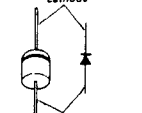
2SD669
2SD669A



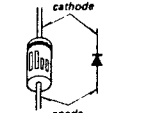
10E2
1S1555
1S2076
1S2473
1T22A
1T22AM
RD10E-N3
RD15J-N2
RD5.1E-N2



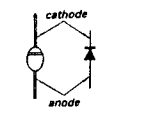
1SS119
1SS120



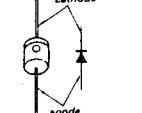
EQA01-05T1
S1B01-02



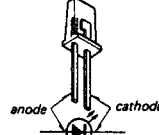
ERB26-20
ERC26-15S
GH3F
GU3A
U05E
U05G
V11N



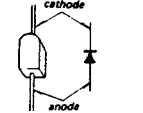
ERD28-08S



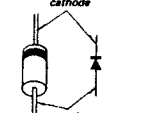
GL9NG2



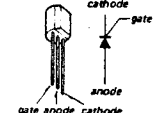
HF1C



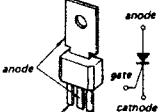
RH1
RH1A
RH1C



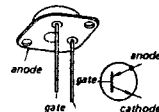
CR02AM



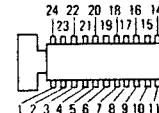
CV12E



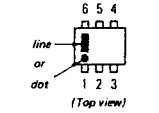
SG264A



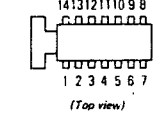
CX108



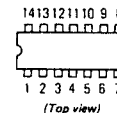
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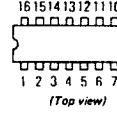
CX158



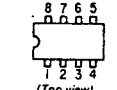
TC4001BP
TC4011BP
TC4023BP
TC4024BP



TC4520BP
TC4528BP



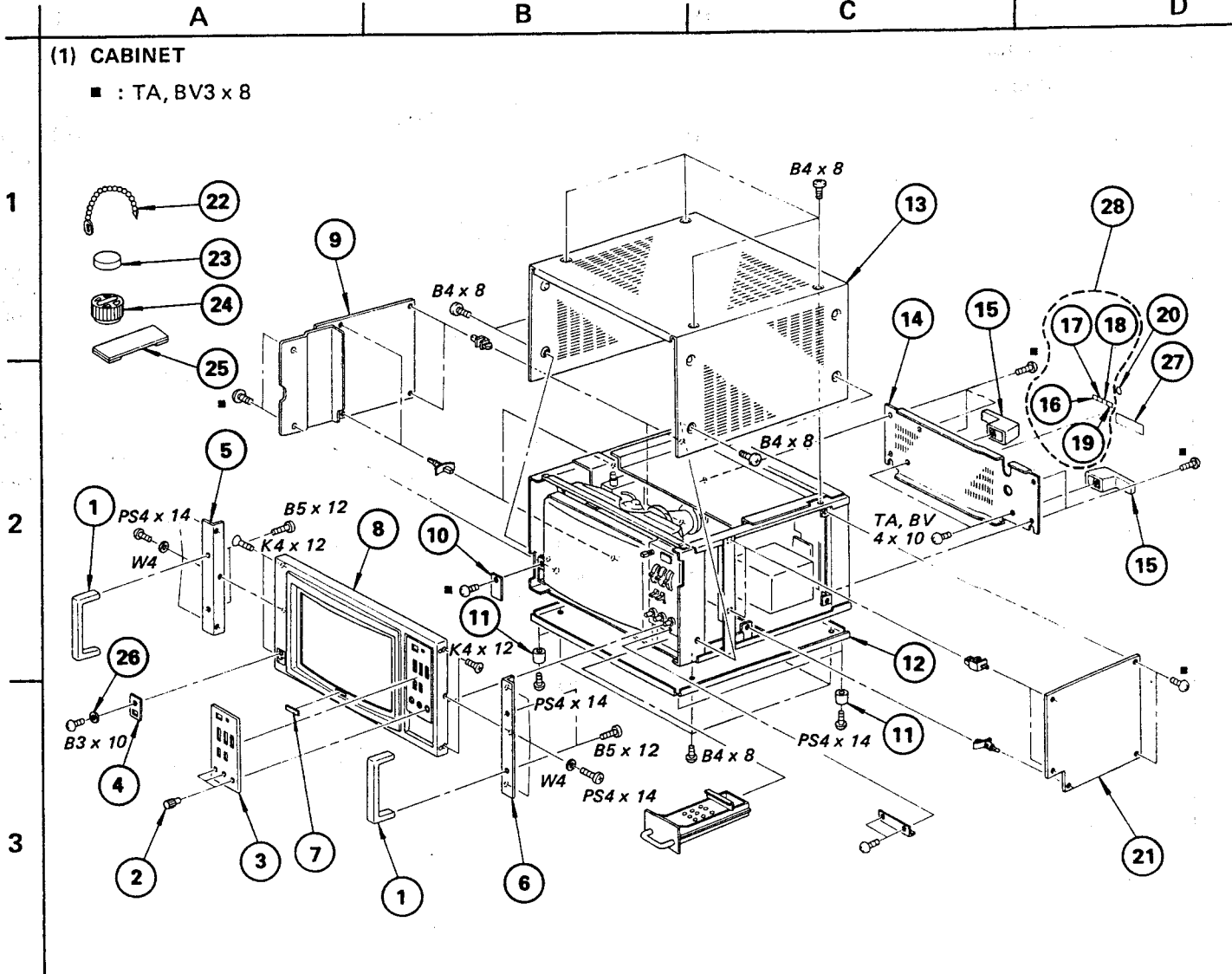
μPC4558C



MEMO

Blank lined area for notes.

SECTION 5
EXPLODED VIEWS

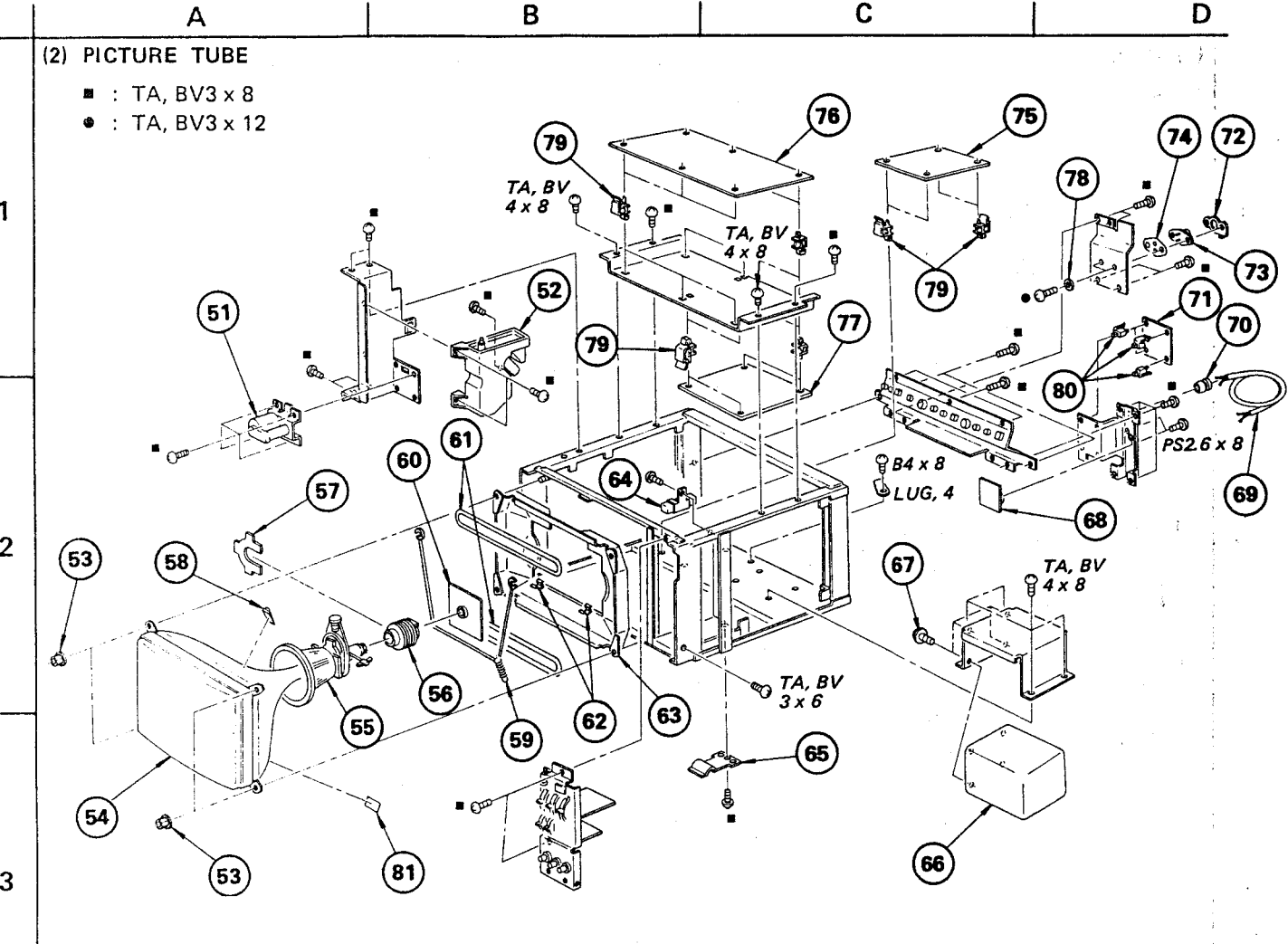


No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	4-337-212-00	HANDLE		15	4-304-418-00	CLAMP, CORD	
2	X-4318-505-0	KNOB ASSY, CONTROL		16	3-703-269-00	LABEL, SEV	
3	4-353-623-00	PLATE (A), ORNAMENTAL		17	4-310-379-00	LABEL, NEMKO	
4	4-353-615-00	COVER		18	4-310-380-00	LABEL, DEMKO	
5	4-335-964-00	BASE (LEFT), HANDLE		19	4-310-381-00	LABEL, SEMKO	
6	4-335-963-00	BASE (RIGHT), HANDLE		20	3-701-940-01	LABEL, BEAB	
7	3-701-845-00	EMBLEM, SONY		21	4-1135-130-A	BA BOARD, COMPLETE	
8	X-4353-602-0	BEZEL ASSY		22	4-308-870-00	CLIP, LEAD WIRE	
9	4-1345-319-A	D BOARD, COMPLETE	3,4,7,26	23	1-452-032-00	MAGNET, DISC	
10	4-1604-884-00	Z BOARD		24	1-452-094-00	MAGNET, ROTATABLE DISK; 15mm ϕ	
11	X-483-890-29	FOOT, RUBBER		25	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
12	4-353-645-00	COVER (LOWER)		26	3-701-440-11	WASHER, 3.5	
13	4-353-644-00	COVER (UPPER)		27	4-353-618-00	LABEL, MODEL NUMBER (LARGE)	
14	4-353-635-00	COVER, BACK		28	3-703-274-00	LABEL, APPROVAL	

NOTE:
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

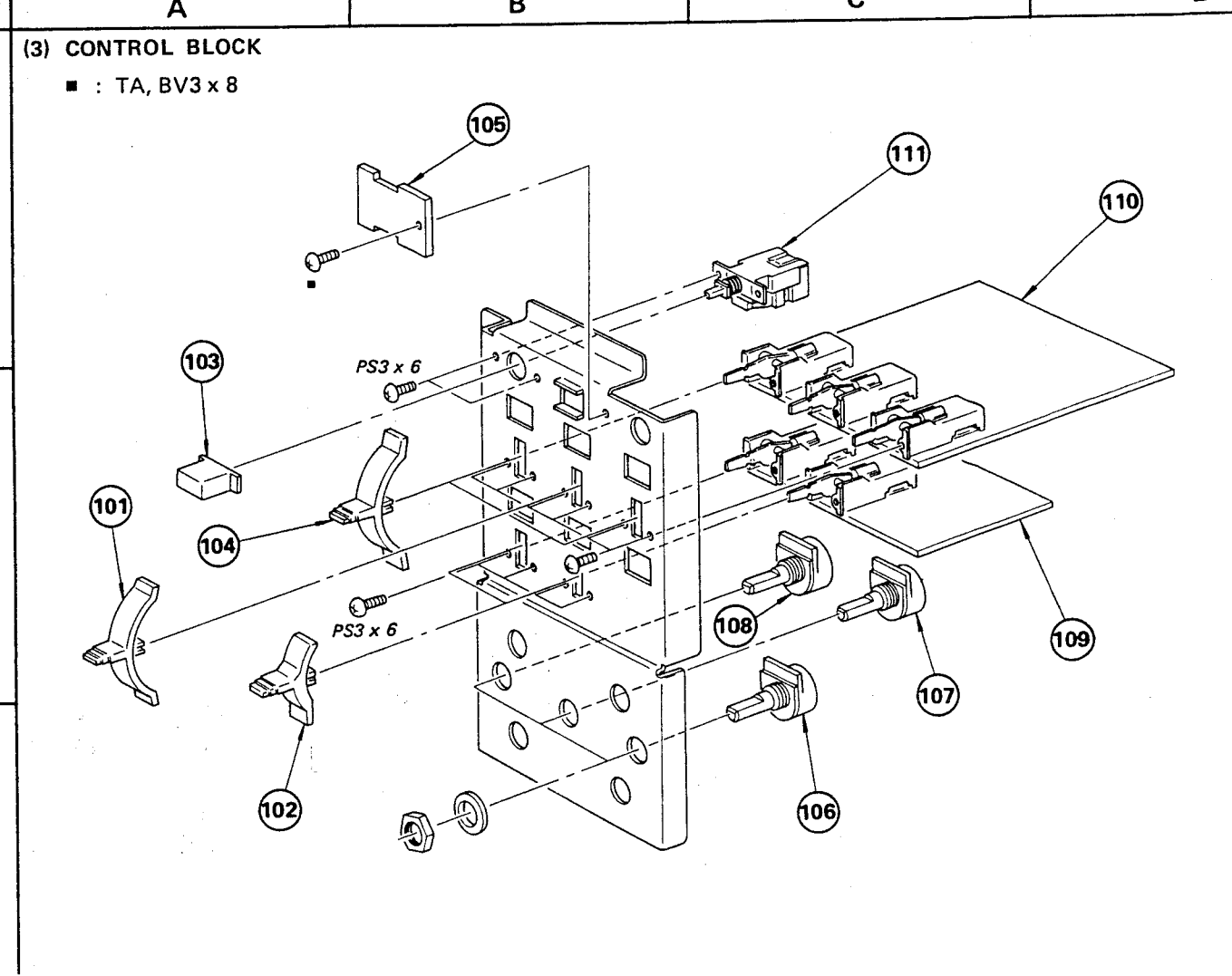


No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	▲1-439-208-00	TRANSFORMER, FLYBACK		67	3-701-810-21	SCREW, TERMINAL	
52	▲1-453-081-00	HIGH-VOLTAGE BLOCK, DC		68	▲1-604-883-00	FC BOARD	
53	4-306-034-00	FLANGE NUT, (B) 5MM		69	▲1-534-820-XX	POWER CORD	
54	▲8-738-301-05	13NBF (FINE PITCH) 330UB22		70	▲2-045-063-00	STOPPER, CORD	
55	▲1-451-160-00	DEFLECTION YOKE (SY-97)		71	▲1-604-882-00	FB BOARD	
56	▲1-452-112-42	NECK ASSY, CRT		72	▲4-314-938-01	RETAINER (TO-3), TRANSISTOR	
57	1-452-146-00	MAGNET, BMC		73	8-729-311-42	TRANSISTOR 2SC1114	
58	3-703-003-00	SPACER, DY		74	3-701-353-00	SPACER, MICA	
59	4-303-774-XX	SPRING		75	▲A-1245-138-A	FA BOARD, COMPLETE	
60	▲A-1330-316-A	C BOARD, COMPLETE		76	▲A-1347-003-A	V BOARD, COMPLETE	
61	▲1-425-922-41	COIL, DEGAUSS		77	▲A-1130-142-A	BB BOARD, COMPLETE	
62	▲4-309-624-00	TERMINAL, EARTH		78	3-701-609-00	BUSHING, (B)	
63	▲X-4320-005-0	SHIELD ASSY, CRT		79	▲3-703-141-00	HOLDER, PCB	
64	1-205-608-00	RES, CEMENT 180		80	▲3-659-681-00	HOLDER, PC BOARD	
65	▲4-353-604-00	SPRING, LEAF		81	3-701-690-00	LABEL	
66	▲1-447-065-00	TRANSFORMER, POWER					

NOTE:
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

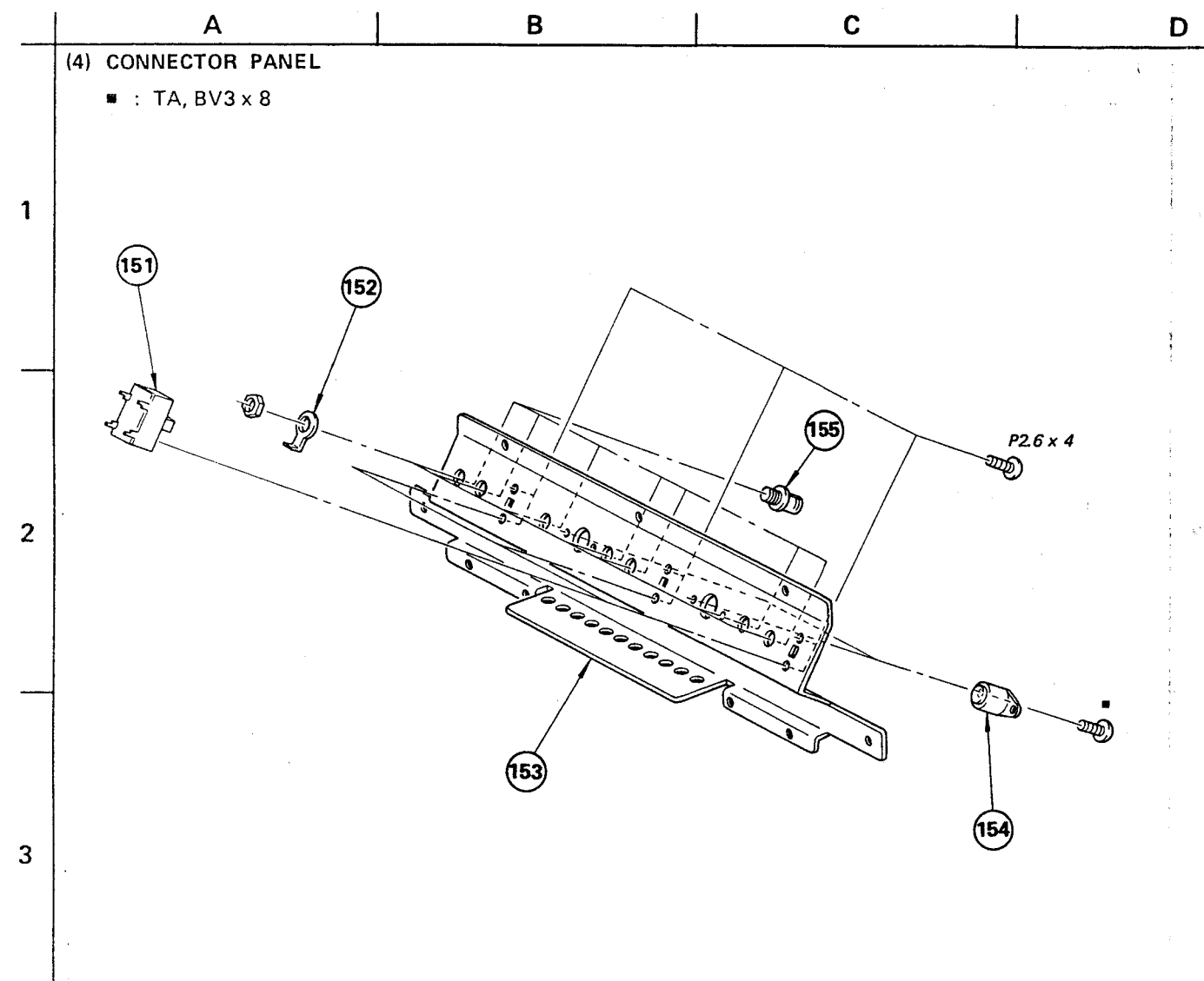


No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	4-347-105-00	KNOB (4P), LEVER SWITCH		107	1-224-619-00	RES, VAR, CARBON 5K	
102	4-335-954-02	KNOB (2P), LEVER SWITCH		108	1-226-687-00	RES, VAR 500	
103	4-335-962-00	PUSH BUTTON		109	▲1-604-880-00	HB BOARD	
104	4-335-953-02	KNOB (3P), LEVER SWITCH		110	▲1-604-879-00	HA BOARD	
105	▲1-604-885-00	X BOARD		111	▲1-553-330-00	SWITCH, PUSH (POWER)	
106	1-224-259-XX	RES, VAR, CARBON 5.0K					

NOTE:
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



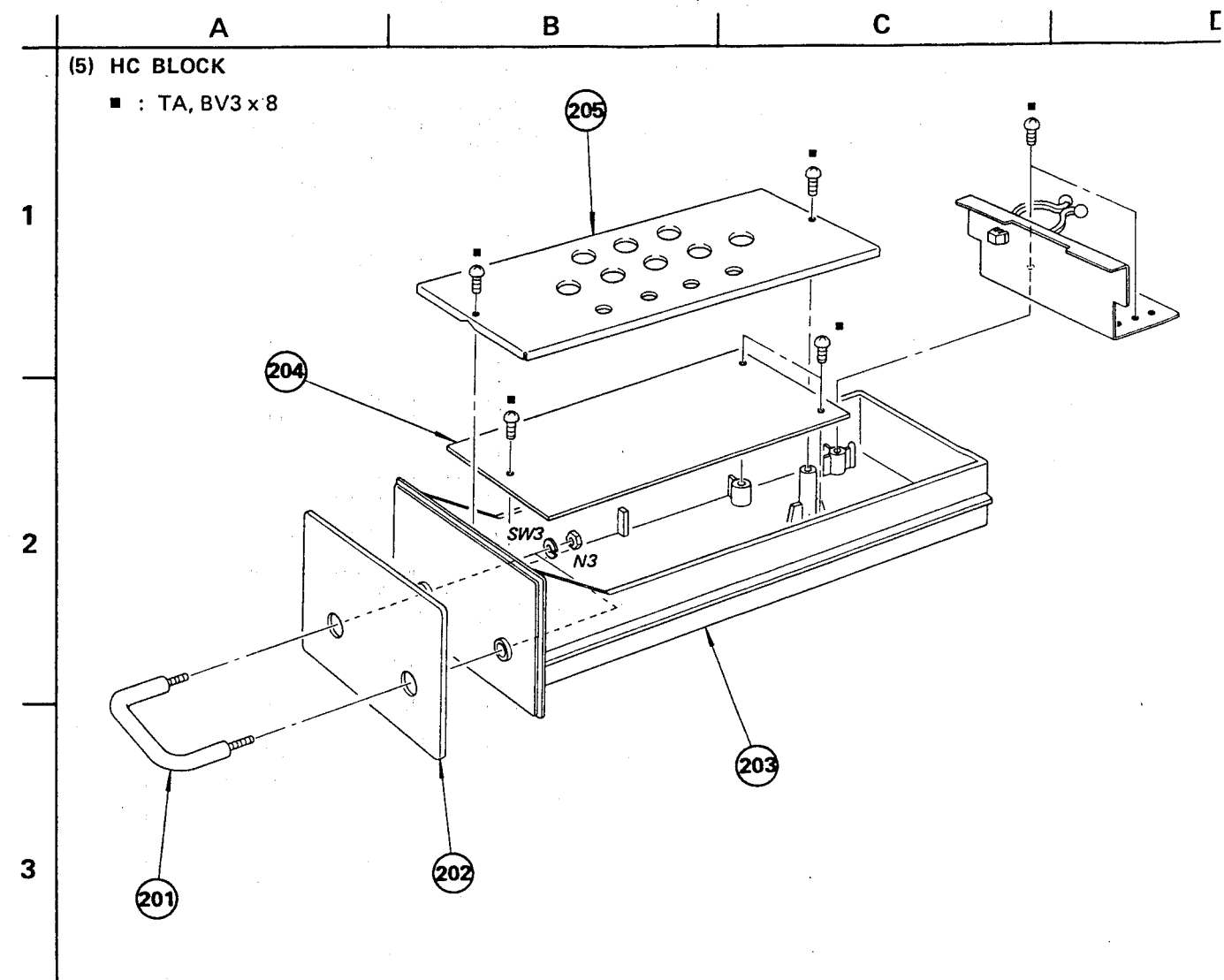
No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	1-516-777-XX	SLIDE SWITCH		154	1-509-718-00	DIN 4P SOCKET	
152	4-325-529-00	TERMINAL, CONNECTOR		155	1-561-167-00	CONNECTOR	
153	4-353-641-00	PANEL, CONNECTOR					

NOTE:

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- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.



No.	Part No	Description	Remark	No.	Part No	Description	Remark
201	4-335-904-02	HANDLE (S)		204	▲1-604-889-00	HC BOARD	
202	▲4-353-614-00	PLATE (B), ORNAMENTAL		205	4-353-637-00	COVER (HC)	
203	X-4353-601-0	CASE ASSY, HC	201,102				

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
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The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SECTION 6

ELECTRICAL PARTS LIST

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
A:1-1130-142-A	BB BOARD, COMPLETE	*****		Q478	8-729-117-54	TRANSISTOR 2SA1175	
				Q479	8-729-117-54	TRANSISTOR 2SA1175	
				Q481	8-724-375-01	TRANSISTOR 2SC403C	
				Q482	8-729-178-54	TRANSISTOR 2SC2785	
				Q483	8-729-117-54	TRANSISTOR 2SA1175	
BB1	A:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P		Q484	8-729-178-54	TRANSISTOR 2SC2785	
BB2	A:1-508-767-00	5P PLUG		Q485	8-724-375-01	TRANSISTOR 2SC403C	
BB3	A:1-508-767-00	5P PLUG		Q486	8-729-178-54	TRANSISTOR 2SC2785	
BB4	A:1-508-767-00	5P PLUG		Q487	8-729-117-54	TRANSISTOR 2SA1175	
BB5	A:1-508-765-00	3P PLUG (M)		Q488	8-729-117-54	TRANSISTOR 2SA1175	
BB6	A:1-508-765-00	3P PLUG (M)		Q489	8-724-375-01	TRANSISTOR 2SC403C	
				Q490	8-729-178-54	TRANSISTOR 2SC2785	
				Q491	8-729-178-54	TRANSISTOR 2SC2785	
				Q492	8-729-117-54	TRANSISTOR 2SA1175	
				Q493	8-724-375-01	TRANSISTOR 2SC403C	
C471	1-123-380-00	ELECT 1MF 20%	50V	Q494	8-729-178-54	TRANSISTOR 2SC2785	
C472	1-123-329-00	ELECT 10MF 20%	25V	Q495	8-729-117-54	TRANSISTOR 2SA1175	
C473	1-123-335-00	ELECT 330MF 20%	25V	Q496	8-729-117-54	TRANSISTOR 2SA1175	
C474	1-123-333-00	ELECT 100MF 20%	25V	Q701	8-729-322-78	TRANSISTOR 2SC2278	
C475	1-102-980-00	CERAMIC 270PF 5%	50V	Q702	8-729-322-78	TRANSISTOR 2SC2278	
C476	1-123-329-00	ELECT 10MF 20%	25V	Q703	8-729-322-78	TRANSISTOR 2SC2278	
C478	1-123-331-00	ELECT 33MF 20%	25V	Q704	8-729-322-78	TRANSISTOR 2SC2278	
C479	1-102-978-00	CERAMIC 220PF 5%	50V	Q705	8-729-322-78	TRANSISTOR 2SC2278	
C480	1-123-253-00	ELECT 22MF 20%	160V	Q706	8-729-322-78	TRANSISTOR 2SC2278	
C481	1-123-380-00	ELECT 1MF 20%	50V				
C482	1-123-333-00	ELECT 100MF 20%	25V				
C483	1-102-980-00	CERAMIC 270PF 5%	50V				
C485	1-123-329-00	ELECT 10MF 20%	25V				
C486	1-123-331-00	ELECT 33MF 20%	25V				
C487	1-102-978-00	CERAMIC 220PF 5%	50V				
C488	1-123-380-00	ELECT 1MF 20%	50V				
C489	1-102-980-00	CERAMIC 270PF 5%	50V				
C490	1-123-333-00	ELECT 100MF 20%	25V				
C491	1-123-329-00	ELECT 10MF 20%	25V				
C493	1-123-331-00	ELECT 33MF 20%	25V				
C494	1-102-978-00	CERAMIC 220PF 5%	50V				
C495	1-123-329-00	ELECT 10MF 20%	25V				

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : $\mu\mu$ F

RESISTORS

- All resistors are in ohms
- F ; nonflammable

COILS
• MMH : mH, UH : μ H

Ref.No	Part No	Description			Remark	Ref.No	Part No	Description			Remark
R729	1-246-473-00	CARBON	1K	5%	1/4W	R1487	1-246-489-00	CARBON	4.7K	5%	1/4W
R730	1-246-481-00	CARBON	2.2K	5%	1/4W	R1489	1-246-442-00	CARBON	51	5%	1/4W
R731	1-246-501-00	CARBON	15K	5%	1/4W	R1490	1-246-442-00	CARBON	51	5%	1/4W
R732	1-246-487-00	CARBON	3.9K	5%	1/4W	R1491	1-246-489-00	CARBON	4.7K	5%	1/4W
R733	1-246-483-00	CARBON	2.7K	5%	1/4W	R1492	1-246-497-00	CARBON	10K	5%	1/4W
R734	1-246-473-00	CARBON	1K	5%	1/4W	R1493	1-246-449-00	CARBON	100	5%	1/4W
R735	1-246-481-00	CARBON	2.2K	5%	1/4W	R1494	1-246-473-00	CARBON	1K	5%	1/4W
R736	1-246-467-00	CARBON	560	5%	1/4W	R1495	1-246-485-00	CARBON	3.3K	5%	1/4W
R737	1-246-491-00	CARBON	5.6K	5%	1/4W	R1496	1-246-477-00	CARBON	1.5K	5%	1/4W
R738	1-246-470-00	CARBON	750	5%	1/4W	R1497	1-246-487-00	CARBON	3.9K	5%	1/4W
R739	1-246-489-00	CARBON	4.7K	5%	1/4W	R1498	1-246-463-00	CARBON	390	5%	1/4W
R740	1-246-442-00	CARBON	51	5%	1/4W	R1499	1-246-533-00	CARBON	330K	5%	1/4W
R741	1-246-442-00	CARBON	51	5%	1/4W						
R742	1-246-489-00	CARBON	4.7K	5%	1/4W						
R743	1-246-470-00	CARBON	750	5%	1/4W						
R744	1-246-449-00	CARBON	100	5%	1/4W						
R745	1-246-473-00	CARBON	1K	5%	1/4W						
R746	1-246-477-00	CARBON	1.5K	5%	1/4W						
R747	1-246-475-00	CARBON	1.2K	5%	1/4W						
R748	1-246-487-00	CARBON	3.9K	5%	1/4W						
R749	1-246-463-00	CARBON	390	5%	1/4W						
R750	1-246-449-00	CARBON	100	5%	1/4W						
R751	1-246-533-00	CARBON	330K	5%	1/4W						
R752	1-206-749-00	METAL	10K	5%	3W	F					
R753	1-206-749-00	METAL	10K	5%	3W	F					
R754	1-246-463-00	CARBON	390	5%	1/4W						
R755	1-246-475-00	CARBON	1.2K	5%	1/4W						
R756	1-246-475-00	CARBON	1.2K	5%	1/4W						
R757	1-246-497-00	CARBON	10K	5%	1/4W						
R758	1-246-497-00	CARBON	10K	5%	1/4W						
R759	1-246-497-00	CARBON	10K	5%	1/4W						
R760	1-246-494-00	CARBON	7.5K	5%	1/4W						
R761	1-246-494-00	CARBON	7.5K	5%	1/4W						
R762	1-246-494-00	CARBON	7.5K	5%	1/4W						
R763	1-246-431-00	CARBON	18	5%	1/4W						
R764	1-246-458-00	CARBON	240	5%	1/4W						
R765	1-213-133-00	METAL	150	5%	1W	F					
R1470	1-246-481-00	CARBON	2.2K	5%	1/4W						
R1471	1-246-473-00	CARBON	1K	5%	1/4W						
R1472	1-246-501-00	CARBON	15K	5%	1/4W						
R1474	1-246-487-00	CARBON	3.9K	5%	1/4W						
R1475	1-246-483-00	CARBON	2.7K	5%	1/4W						
R1476	1-246-487-00	CARBON	3.9K	5%	1/4W						
R1477	1-246-493-00	CARBON	6.8K	5%	1/4W						
R1478	1-246-457-00	CARBON	220	5%	1/4W						
R1479	1-246-495-00	CARBON	8.2K	5%	1/4W						
R1480	1-246-473-00	CARBON	1K	5%	1/4W						
R1481	1-246-473-00	CARBON	1K	5%	1/4W						
R1482	1-246-481-00	CARBON	2.2K	5%	1/4W						
R1483	1-246-467-00	CARBON	560	5%	1/4W						
R1484	1-246-491-00	CARBON	5.6K	5%	1/4W						
R1485	1-246-470-00	CARBON	750	5%	1/4W						
R1486	1-246-470-00	CARBON	750	5%	1/4W						

NOTE:

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- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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CAPACITORS
• MF : μ F, PF : $\mu\mu$ F

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μ H

B A

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C273	1-123-380-00	ELECT	1MF 20% 50V	C331	1-101-004-00	CERAMIC	0.01MF 50V
C274	1-123-380-00	ELECT	1MF 20% 50V	C332	1-102-676-00	CERAMIC	68PF 5% 50V
C275	1-123-380-00	ELECT	1MF 20% 50V	C333	1-101-004-00	CERAMIC	0.01MF 50V
C277	1-101-004-00	CERAMIC	0.01MF 50V	C334	1-102-961-00	CERAMIC	27PF 5% 50V
C279	1-101-004-00	CERAMIC	0.01MF 50V	C335	1-102-961-00	CERAMIC	27PF 5% 50V
C280	1-102-976-00	CERAMIC	180PF 5% 50V	C336	1-101-006-00	CERAMIC	0.047MF 50V
C281	1-101-006-00	CERAMIC	0.047MF 50V	C337	1-123-333-00	ELECT	100MF 20% 25V
C282	1-101-004-00	CERAMIC	0.01MF 50V	C339	1-123-332-00	ELECT	47MF 20% 25V
C283	1-123-333-00	ELECT	100MF 20% 16V	C340	1-101-006-00	CERAMIC	0.047MF 50V
C284	1-101-004-00	CERAMIC	0.01MF 50V	C341	1-101-361-00	CERAMIC	150PF 5% 50V
C285	1-101-006-00	CERAMIC	0.047MF 50V	C342	1-101-004-00	CERAMIC	0.01MF 50V
C286	1-123-356-00	ELECT	10MF 20% 16V	C343	1-102-700-00	CERAMIC	82PF 5% 50V
C287	1-101-006-00	CERAMIC	0.047MF 50V	C344	1-102-512-00	CERAMIC	16PF 5% 50V
C288	1-123-329-00	ELECT	10MF 20% 25V	C345	1-101-006-00	CERAMIC	0.047MF 50V
C289	1-102-965-00	CERAMIC	39PF 5% 50V	C346	1-108-375-00	MYLAR	0.0068MF 10% 100V
C290	1-101-004-00	CERAMIC	0.01MF 50V	C347	1-108-375-00	MYLAR	0.0068MF 10% 100V
C291	1-101-004-00	CERAMIC	0.01MF 50V	C348	1-123-379-00	ELECT	0.47MF 20% 50V
C292	1-102-937-00	CERAMIC	4PF 0.25PF 50V	C349	1-123-379-00	ELECT	0.47MF 20% 50V
C293	1-102-676-00	CERAMIC	68PF 5% 50V	C354	1-123-332-00	ELECT	47MF 20% 25V
C294	1-123-329-00	ELECT	10MF 20% 25V	C356	1-123-332-00	ELECT	47MF 20% 25V
C295	1-123-328-00	ELECT	4.7MF 20% 25V	C361	1-101-004-00	CERAMIC	0.01MF 50V
C296	1-101-006-00	CERAMIC	0.047MF 50V	C362	1-102-074-00	CERAMIC	0.001MF 10% 50V
C297	1-102-935-00	CERAMIC	2PF 0.25PF 50V	C363	1-102-074-00	CERAMIC	0.001MF 10% 50V
C298	1-102-961-00	CERAMIC	27PF 5% 50V	C364	1-102-973-00	CERAMIC	100PF 5% 50V
C299	1-102-963-00	CERAMIC	33PF 5% 50V	C365	1-101-004-00	CERAMIC	0.01MF 50V
C300	1-102-959-00	CERAMIC	22PF 5% 50V	C366	1-108-381-00	MYLAR	0.022MF 10% 100V
C301	1-101-006-00	CERAMIC	0.047MF 50V	C367	1-123-380-00	ELECT	1MF 20% 50V
C302	1-101-004-00	CERAMIC	0.01MF 50V	C368	1-108-381-00	MYLAR	0.022MF 10% 100V
C303	1-101-004-00	CERAMIC	0.01MF 50V	C370	1-108-381-00	MYLAR	0.022MF 10% 100V
C304	1-123-380-00	ELECT	1MF 20% 50V	C371	1-108-381-00	MYLAR	0.022MF 10% 100V
C305	1-101-006-00	CERAMIC	0.047MF 50V	C372	1-102-116-00	CERAMIC	680PF 10% 50V
C307	1-101-006-00	CERAMIC	0.047MF 50V	C373	1-102-116-00	CERAMIC	680PF 10% 50V
C308	1-102-976-00	CERAMIC	180PF 5% 50V	C374	1-102-074-00	CERAMIC	0.001MF 10% 50V
C309	1-101-004-00	CERAMIC	0.01MF 50V	C375	1-102-074-00	CERAMIC	0.001MF 10% 50V
C310	1-123-333-00	ELECT	100MF 20% 16V	C376	1-102-973-00	CERAMIC	100PF 5% 50V
C311	1-101-004-00	CERAMIC	0.01MF 50V	C377	1-123-328-00	ELECT	4.7MF 20% 25V
C312	1-101-006-00	CERAMIC	0.047MF 50V	C379	1-102-961-00	CERAMIC	27PF 5% 50V
C314	1-101-004-00	CERAMIC	0.01MF 50V	C380	1-101-004-00	CERAMIC	0.01MF 50V
C315	1-101-006-00	CERAMIC	0.047MF 50V	C381	1-123-329-00	ELECT	10MF 20% 25V
C316	1-123-328-00	ELECT	4.7MF 20% 25V	C382	1-102-973-00	CERAMIC	100PF 5% 50V
C317	1-101-006-00	CERAMIC	0.047MF 50V	C383	1-123-329-00	ELECT	10MF 20% 25V
C318	1-101-004-00	CERAMIC	0.01MF 50V	C384	1-101-004-00	CERAMIC	0.01MF 50V
C319	1-123-379-00	ELECT	0.47MF 20% 50V	C385	1-123-332-00	ELECT	47MF 20% 25V
C321	1-101-004-00	CERAMIC	0.01MF 50V	C386	1-123-380-00	ELECT	1MF 20% 50V
C322	1-101-004-00	CERAMIC	0.01MF 50V	C387	1-123-380-00	ELECT	1MF 20% 50V
C323	1-123-332-00	ELECT	47MF 20% 25V	C388	1-101-884-00	CERAMIC	56PF 5% 50V
C324	1-101-004-00	CERAMIC	0.01MF 50V	C389	1-101-884-00	CERAMIC	56PF 5% 50V
C325	1-101-004-00	CERAMIC	0.01MF 50V	C390	1-123-329-00	ELECT	10MF 20% 25V
C326	1-102-892-00	CERAMIC	22PF 5% 50V	C391	1-123-329-00	ELECT	10MF 20% 25V
C327	1-102-670-00	CERAMIC	18PF 5% 50V	C393	1-123-331-00	ELECT	33MF 20% 25V
C328	1-101-004-00	CERAMIC	0.01MF 50V	C394	1-102-959-00	CERAMIC	22PF 5% 50V
C329	1-101-004-00	CERAMIC	0.01MF 50V	C396	1-102-973-00	CERAMIC	100PF 5% 50V
C330	1-101-004-00	CERAMIC	0.01MF 50V	C397	1-102-973-00	CERAMIC	100PF 5% 50V

NOTE:

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF : μ F, PF : μ P

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MMH : mH, UH : μ H

B

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C398	1-101-004-00	CERAMIC	0.01MF 50V	L261	1-407-240-00	MICRO INDUCTOR	22MMH
C399	1-102-676-00	CERAMIC	68PF 5% 50V	L262	1-407-488-00	MICRO INDUCTOR	470UH
C400	1-101-004-00	CERAMIC	0.01MF 50V	L263	1-407-697-00	MICRO INDUCTOR	22UH
C401	1-123-380-00	ELECT	1MF 20% 50V	L264	1-407-488-00	MICRO INDUCTOR	470UH
C402	1-102-961-00	CERAMIC	27PF 5% 50V	TRANSISTOR			
C403	1-102-961-00	CERAMIC	27PF 5% 50V	Q250	=>8-729-612-77	TRANSISTOR	2SA1027R
C404	1-102-959-00	CERAMIC	22PF 5% 50V	Q251	8-724-374-01	TRANSISTOR	2SC403C
C405	1-123-331-00	ELECT	33MF 20% 25V	Q252	=>8-729-178-54	TRANSISTOR	2SC2785
C406	1-102-934-00	CERAMIC	1PF 0.25PF 50V	Q253	=>8-729-178-54	TRANSISTOR	2SC2785
C407	1-123-333-00	ELECT	100MF 20% 25V	Q254	=>8-729-178-54	TRANSISTOR	2SC2785
C409	1-101-004-00	CERAMIC	0.01MF 50V	Q255	=>8-729-178-54	TRANSISTOR	2SC2785
C410	1-101-006-00	CERAMIC	0.047MF 50V	Q256	=>8-729-178-54	TRANSISTOR	2SC2785
C413	1-123-329-00	ELECT	10MF 20% 25V	Q257	=>8-729-178-54	TRANSISTOR	2SC2785
DIODE				Q258	8-724-374-01	TRANSISTOR	2SC403C
D250	8-719-911-19	DIODE	1SS119	Q259	=>8-729-178-54	TRANSISTOR	2SC2785
D251	=>8-719-422-21	DIODE	1T22AM	Q260	8-724-374-01	TRANSISTOR	2SC403C
D252	=>8-719-422-21	DIODE	1T22AM	Q261	=>8-729-178-54	TRANSISTOR	2SC2785
D253	8-719-911-19	DIODE	1SS119	Q262	=>8-729-178-54	TRANSISTOR	2SC2785
D254	=>8-719-422-21	DIODE	1T22AM	Q263	=>8-729-178-54	TRANSISTOR	2SC2785
D255	8-719-911-19	DIODE	1SS119	Q264	=>8-729-178-54	TRANSISTOR	2SC2785
D256	8-719-911-19	DIODE	1SS119	Q265	=>8-729-178-54	TRANSISTOR	2SC2785
D259	8-719-911-19	DIODE	1SS119	Q266	8-724-374-01	TRANSISTOR	2SC403C
D260	8-719-911-19	DIODE	1SS119	Q267	=>8-729-178-54	TRANSISTOR	2SC2785
D261	8-719-911-19	DIODE	1SS119	Q268	=>8-729-178-54	TRANSISTOR	2SC2785
D262	8-719-911-19	DIODE	1SS119	Q269	8-724-374-01	TRANSISTOR	2SC403C
D263	8-719-911-19	DIODE	1SS119	Q270	8-724-374-01	TRANSISTOR	2SC403C
D264	8-719-911-19	DIODE	1SS119	Q271	=>8-729-178-54	TRANSISTOR	2SC2785
D265	8-719-911-19	DIODE	1SS119	Q272	=>8-729-178-54	TRANSISTOR	2SC2785
D266	8-719-911-19	DIODE	1SS119	Q273	8-724-374-01	TRANSISTOR	2SC403C
D267	8-719-911-19	DIODE	1SS119	Q274	=>8-729-178-54	TRANSISTOR	2SC2785
D268	8-719-911-19	DIODE	1SS119	Q275	8-724-374-01	TRANSISTOR	2SC403C
D269	8-719-911-19	DIODE	1SS119	Q276	=>8-729-178-54	TRANSISTOR	2SC2785
D270	8-719-911-19	DIODE	1SS119	Q277	=>8-729-178-54	TRANSISTOR	2SC2785
D271	8-719-911-19	DIODE	1SS119	Q278	=>8-729-178-54	TRANSISTOR	2SC2785
DELAY LINE				Q279	=>8-729-178-54	TRANSISTOR	2SC2785
DL250	1-415-100-00	DELAY LINE		Q280	8-724-374-01	TRANSISTOR	2SC403C
DL251	1-415-100-00	DELAY LINE		Q282	=>8-729-178-54	TRANSISTOR	2SC2785
DL252	1-415-122-31	DELAY LINE		Q283	8-724-374-01	TRANSISTOR	2SC403C
IC				Q284	8-724-374-01	TRANSISTOR	2SC403C
IC250	8-751-080-00	IC CX108		Q285	=>8-729-178-54	TRANSISTOR	2SC2785
IC251	8-751-300-00	IC CX130		Q287	8-724-374-01	TRANSISTOR	2SC403C
COIL				Q288	8-724-374-01	TRANSISTOR	2SC403C
L250	1-409-193-00	COIL 3.58MHZ TRAP		Q289	=>8-729-663-47	TRANSISTOR	2SC1634
L251	1-407-166-XX	MICRO INDUCTOR	56UH	Q290	=>8-729-663-47	TRANSISTOR	2SC1634
L252	1-407-189-XX	MICRO INDUCTOR	8.2UH	Q291	=>8-729-663-47	TRANSISTOR	2SC1634
L253	1-407-716-00	MICRO INDUCTOR	820UH	Q292	=>8-729-178-54	TRANSISTOR	2SC2785
L254	1-407-694-00	MICRO INDUCTOR	12UH	Q293	=>8-729-178-54	TRANSISTOR	2SC2785
L255	1-407-189-XX	MICRO INDUCTOR	8.2UH	Q294	=>8-729-178-54	TRANSISTOR	2SC2785
L256	1-407-189-XX	MICRO INDUCTOR	8.2UH	Q295	=>8-729-178-54	TRANSISTOR	2SC2785
NOTE:				Q296	=>8-729-663-47	TRANSISTOR	2SC1634
The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.				Q297	=>8-729-663-47	TRANSISTOR	2SC1634
=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.				Q298	=>8-729-663-47	TRANSISTOR	2SC1634
Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.							

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF : μ F, PF : μ P

RESISTORS
All resistors are in ohms
F : nonflammable

COILS
MMH : mH, UH : μ H

BA

Ref.No	Part No	Description	Remark
Q299	=>8-729-663-47	TRANSISTOR 2SC1634	
Q300	8-724-374-01	TRANSISTOR 2SC403C	
Q301	=>8-729-663-47	TRANSISTOR 2SC1634	
Q303	=>8-729-663-47	TRANSISTOR 2SC1634	
Q304	=>8-729-663-47	TRANSISTOR 2SC1634	
Q305	=>8-729-663-47	TRANSISTOR 2SC1634	
Q307	8-729-304-92	TRANSISTOR 2SB649A	
RESISTOR			
R250	1-246-441-00	CARBON 47 5% 1/4W	
R251	1-246-516-00	CARBON 62K 5% 1/4W	
R252	1-246-491-00	CARBON 5.6K 5% 1/4W	
R253	1-246-465-00	CARBON 470 5% 1/4W	
R254	1-246-473-00	CARBON 1K 5% 1/4W	
R255	1-246-490-00	CARBON 5.1K 5% 1/4W	
R256	1-246-483-00	CARBON 2.7K 5% 1/4W	
R257	1-246-483-00	CARBON 2.7K 5% 1/4W	
R258	1-246-489-00	CARBON 4.7K 5% 1/4W	
R259	1-246-485-00	CARBON 3.3K 5% 1/4W	
R260	1-246-473-00	CARBON 1K 5% 1/4W	
R261	1-246-473-00	CARBON 1K 5% 1/4W	
R262	1-246-457-00	CARBON 220 5% 1/4W	
R263	1-246-457-00	CARBON 220 5% 1/4W	
R264	1-246-473-00	CARBON 1K 5% 1/4W	
R265	1-246-471-00	CARBON 820 5% 1/4W	
R266	1-246-475-00	CARBON 1.2K 5% 1/4W	
R267	1-246-497-00	CARBON 10K 5% 1/4W	
R268	1-246-461-00	CARBON 330 5% 1/4W	
R269	1-246-513-00	CARBON 47K 5% 1/4W	
R270	1-246-509-00	CARBON 33K 5% 1/4W	
R271	1-246-470-00	CARBON 750 5% 1/4W	
R272	1-246-449-00	CARBON 100 5% 1/4W	
R273	1-246-501-00	CARBON 15K 5% 1/4W	
R274	1-246-497-00	CARBON 10K 5% 1/4W	
R275	1-246-517-00	CARBON 68K 5% 1/4W	
R276	1-246-521-00	CARBON 100K 5% 1/4W	
R277	1-246-505-00	CARBON 22K 5% 1/4W	
R278	1-246-483-00	CARBON 2.7K 5% 1/4W	
R279	1-246-465-00	CARBON 470 5% 1/4W	
R280	1-246-511-00	CARBON 39K 5% 1/4W	
R281	1-246-505-00	CARBON 22K 5% 1/4W	
R282	1-246-473-00	CARBON 1K 5% 1/4W	
R283	1-246-439-00	CARBON 39 5% 1/4W	
R284	1-246-466-00	CARBON 510 5% 1/4W	
R285	1-246-505-00	CARBON 22K 5% 1/4W	
R286	1-246-493-00	CARBON 6.8K 5% 1/4W	
R287	1-246-496-00	CARBON 9.1K 5% 1/4W	
R288	1-246-483-00	CARBON 2.7K 5% 1/4W	
R289	1-246-471-00	CARBON 820 5% 1/4W	
R290	1-246-463-00	CARBON 390 5% 1/4W	
R292	1-246-473-00	CARBON 1K 5% 1/4W	
R293	1-246-517-00	CARBON 68K 5% 1/4W	
R294	1-246-499-00	CARBON 12K 5% 1/4W	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF: μ F, PF: μ F

RESISTORS
All resistors are in ohms
F: nonflammable

COILS
MMH: mH, UH: μ H

E

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R349	1-246-457-00	CARBON 220 5% 1/4W		R403	1-246-485-00	CARBON 3.3K 5% 1/4W	
R350	1-246-469-00	CARBON 680 5% 1/4W		R404	1-246-467-00	CARBON 560 5% 1/4W	
R351	1-246-457-00	CARBON 220 5% 1/4W		R405	1-246-513-00	CARBON 47K 5% 1/4W	
R352	1-246-507-00	CARBON 27K 5% 1/4W		R406	1-246-501-00	CARBON 15K 5% 1/4W	
R353	1-246-493-00	CARBON 6.8K 5% 1/4W		R407	1-246-465-00	CARBON 470 5% 1/4W	
R354	1-246-479-00	CARBON 1.8K 5% 1/4W		R408	1-246-449-00	CARBON 100 5% 1/4W	
R355	1-246-473-00	CARBON 1K 5% 1/4W		R409	1-246-477-00	CARBON 1.5K 5% 1/4W	
R356	1-246-449-00	CARBON 100 5% 1/4W		R410	1-246-461-00	CARBON 330 5% 1/4W	
R357	1-244-857-00	CARBON 220 5% 1/2W		R411	1-246-433-00	CARBON 22 5% 1/4W	
R358	1-246-453-00	CARBON 150 5% 1/4W		R412	1-246-473-00	CARBON 1K 5% 1/4W	
R359	1-246-491-00	CARBON 5.6K 5% 1/4W		R413	1-246-453-00	CARBON 150 5% 1/4W	
R360	1-246-479-00	CARBON 1.8K 5% 1/4W		R414	1-246-433-00	CARBON 22 5% 1/4W	
R361	1-246-497-00	CARBON 10K 5% 1/4W		R415	1-246-467-00	CARBON 560 5% 1/4W	
R362	1-246-513-00	CARBON 47K 5% 1/4W		R416	1-246-473-00	CARBON 1K 5% 1/4W	
R363	1-246-469-00	CARBON 680 5% 1/4W		R417	1-246-471-00	CARBON 820 5% 1/4W	
R364	1-246-463-00	CARBON 390 5% 1/4W		R418	1-246-457-00	CARBON 220 5% 1/4W	
R366	1-246-501-00	CARBON 15K 5% 1/4W		R419	1-246-485-00	CARBON 3.3K 5% 1/4W	
R367	1-246-503-00	CARBON 18K 5% 1/4W		R420	1-246-471-00	CARBON 820 5% 1/4W	
R368	1-246-507-00	CARBON 27K 5% 1/4W		R421	1-246-453-00	CARBON 150 5% 1/4W	
R369	1-246-473-00	CARBON 1K 5% 1/4W		R422	1-246-477-00	CARBON 1.5K 5% 1/4W	
R370	1-246-513-00	CARBON 47K 5% 1/4W		R423	1-246-483-00	CARBON 2.7K 5% 1/4W	
R371	1-246-501-00	CARBON 15K 5% 1/4W		R424	1-246-497-00	CARBON 10K 5% 1/4W	
R372	1-246-505-00	CARBON 22K 5% 1/4W		R425	1-246-497-00	CARBON 10K 5% 1/4W	
R373	1-246-513-00	CARBON 47K 5% 1/4W		R428	1-244-869-00	CARBON 680 5% 1/2W	
R374	1-246-501-00	CARBON 15K 5% 1/4W		R430	1-244-841-00	CARBON 47 5% 1/2W	
R375	1-246-493-00	CARBON 6.8K 5% 1/4W		R432	1-246-449-00	CARBON 100 5% 1/4W	
R376	1-246-473-00	CARBON 1K 5% 1/4W		R433	1-246-449-00	CARBON 100 5% 1/4W	
R377	1-246-443-00	CARBON 56 5% 1/4W		R434	1-214-132-00	METAL 1K 1% 1/4W	
R378	1-246-501-00	CARBON 15K 5% 1/4W		R435	1-214-132-00	METAL 1K 1% 1/4W	
R379	1-246-494-00	CARBON 7.5K 5% 1/4W		R435	1-246-505-00	CARBON 22K 5% 1/4W	
R380	1-246-453-00	CARBON 150 5% 1/4W		R436	1-246-497-00	CARBON 10K 5% 1/4W	
R381	1-246-483-00	CARBON 2.7K 5% 1/4W		R437	1-246-497-00	CARBON 10K 5% 1/4W	
R382	1-246-486-00	CARBON 3.6K 5% 1/4W		R438	1-246-491-00	CARBON 5.6K 5% 1/4W	
R383	1-246-457-00	CARBON 220 5% 1/4W		R439	1-246-477-00	CARBON 1.5K 5% 1/4W	
R384	1-246-470-00	CARBON 750 5% 1/4W		R440	1-246-509-00	CARBON 33K 5% 1/4W	
R385	1-246-495-00	CARBON 8.2K 5% 1/4W		R441	1-246-501-00	CARBON 15K 5% 1/4W	
R386	1-246-497-00	CARBON 10K 5% 1/4W		R442	1-214-108-00	METAL 100 1% 1/4W	
R387	1-246-463-00	CARBON 390 5% 1/4W		R443	1-246-473-00	CARBON 1K 5% 1/4W	
R388	1-246-441-00	CARBON 47 5% 1/4W		R444	1-246-505-00	CARBON 22K 5% 1/4W	
R389	1-246-457-00	CARBON 220 5% 1/4W		R445	1-246-521-00	CARBON 100K 5% 1/4W	
R390	1-246-467-00	CARBON 560 5% 1/4W		R446	1-246-501-00	CARBON 15K 5% 1/4W	
R391	1-246-463-00	CARBON 390 5% 1/4W		R447	1-246-477-00	CARBON 1.5K 5% 1/4W	
R392	1-246-491-00	CARBON 5.6K 5% 1/4W		R448	1-246-485-00	CARBON 3.3K 5% 1/4W	
R393	1-246-480-00	CARBON 2K 5% 1/4W		R449	1-246-517-00	CARBON 68K 5% 1/4W	
R394	1-246-455-00	CARBON 180 5% 1/4W		R450	1-246-494-00	CARBON 7.5K 5% 1/4W	
R395	1-246-491-00	CARBON 5.6K 5% 1/4W		R451	1-246-509-00	CARBON 33K 5% 1/4W	
R396	1-246-475-00	CARBON 1.2K 5% 1/4W		R452	1-246-473-00	CARBON 1K 5% 1/4W	
R397	1-246-499-00	CARBON 12K 5% 1/4W		R453	1-246-505-00	CARBON 22K 5% 1/4W	
R398	1-246-505-00	CARBON 22K 5% 1/4W		R454	1-246-449-00	CARBON 100 5% 1/4W	
R399	1-246-485-00	CARBON 3.3K 5% 1/4W		R455	1-246-505-00	CARBON 22K 5% 1/4W	
R400	1-246-505-00	CARBON 22K 5% 1/4W		R456	1-246-473-00	CARBON 1K 5% 1/4W	
R401	1-246-495-00	CARBON 8.2K 5% 1/4W		R457	1-246-494-00	CARBON 7.5K 5% 1/4W	
R402	1-246-485-00	CARBON 3.3K 5% 1/4W		R458	1-246-485-00	CARBON 3.3K 5% 1/4W	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF: μ F, PF: μ F

RESISTORS
All resistors are in ohms
F: nonflammable

COILS
MMH: mH, UH: μ H

BA FB FC FA

Ref.No	Part No	Description	Remark
R459	1-246-471-00	CARBON 820 5% 1/4W	
R460	1-214-148-00	METAL 4.7K 1% 1/4W	
R461	1-214-148-00	METAL 4.7K 1% 1/4W	
R462	1-246-505-00	CARBON 22K 5% 1/4W	
R463	1-246-501-00	CARBON 15K 5% 1/4W	
R464	1-246-481-00	CARBON 2.2K 5% 1/4W	
R465	1-246-481-00	CARBON 2.2K 5% 1/4W	
R466	1-246-470-00	CARBON 750 5% 1/4W	
R467	1-246-470-00	CARBON 750 5% 1/4W	
R468	1-246-483-00	CARBON 2.7K 5% 1/4W	
R469	1-246-483-00	CARBON 2.7K 5% 1/4W	
R470	1-246-471-00	CARBON 820 5% 1/4W	
R471	1-246-471-00	CARBON 820 5% 1/4W	
R472	1-246-471-00	CARBON 820 5% 1/4W	
R473	1-214-120-00	METAL 330 1% 1/4W	
R474	1-214-120-00	METAL 330 1% 1/4W	
R475	1-214-148-00	METAL 4.7K 1% 1/4W	
R476	1-214-148-00	METAL 4.7K 1% 1/4W	
R477	1-246-509-00	CARBON 33K 5% 1/4W	
R478	1-246-509-00	CARBON 33K 5% 1/4W	
R479	1-246-477-00	CARBON 1.5K 5% 1/4W	
R480	1-246-489-00	CARBON 4.7K 5% 1/4W	
R481	1-246-489-00	CARBON 4.7K 5% 1/4W	
R482	1-246-487-00	CARBON 3.9K 5% 1/4W	
R483	1-246-487-00	CARBON 3.9K 5% 1/4W	
R486	1-246-453-00	CARBON 150 5% 1/4W	
R487	1-246-497-00	CARBON 10K 5% 1/4W	
R488	1-246-468-00	CARBON 620 5% 1/4W	
R489	1-214-120-00	METAL 330 1% 1/4W	
R490	1-214-120-00	METAL 330 1% 1/4W	
R491	1-214-148-00	METAL 4.7K 1% 1/4W	
R492	1-214-148-00	METAL 4.7K 1% 1/4W	
R493	1-246-509-00	CARBON 33K 5% 1/4W	
R495	1-246-509-00	CARBON 33K 5% 1/4W	
R499	1-246-505-00	CARBON 22K 5% 1/4W	

VARIABLE RESISTOR

RV250	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV251	1-226-819-00	RES, ADJ, CARBON 1K
RV252	1-226-819-00	RES, ADJ, CARBON 1K
RV253	1-226-819-00	RES, ADJ, CARBON 1K
RV254	1-224-641-XX	RES, ADJ, CARBON 470
RV255	1-226-819-00	RES, ADJ, CARBON 1K
RV257	1-224-935-00	RES, ADJ, METAL FILM 200

TRANSFORMER

T250	1-425-831-00	COIL BPT-1
T251	1-405-372-00	COIL BAT
T252	1-425-831-00	COIL BPT-1B
T253	1-405-733-00	COIL, OSCILLATOR, APC
T254	1-425-927-00	TRANSFORMER, BANDPASS (BPT)
T255	1-425-928-00	TRANSFORMER, DELAY ADJUSTING
T256	1-404-081-00	TRANSFORMER, DELAY ADJUST

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF: μ F, PF: μ PF

RESISTORS
All resistors are in ohms
F: nonflammable

COILS
MMH: mH, UH: μ H

F

Ref.No	Part No	Description	Remark
CAPACITOR			
C610	1-102-085-00	CERAMIC 0.0047MF 500V	
C611	1-102-085-00	CERAMIC 0.0047MF 500V	
C612	1-102-085-00	CERAMIC 0.0047MF 500V	
C613	1-102-085-00	CERAMIC 0.0047MF 500V	
C614	1-102-085-00	CERAMIC 0.0047MF 500V	
C615	1-125-186-00	ELECT (BLOCK) 560MF 200V	
C616	1-121-999-00	ELECT 10MF 160V	
C617	1-102-228-00	CERAMIC 470PF 10% 500V	
C618	1-121-757-00	ELECT 33MF 160V	
C620	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C621	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C622	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C623	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C624	1-123-339-00	ELECT 3300MF 20% 25V	
C625	1-123-329-00	ELECT 10MF 20% 25V	
C626	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C627	1-123-337-00	ELECT 1000MF 20% 25V	
C628	1-123-338-00	ELECT 2200MF 20% 25V	
C629	1-123-329-00	ELECT 10MF 20% 25V	
C630	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C631	1-123-337-00	ELECT 1000MF 20% 25V	
DIODE			
D610	=>8-719-911-55	DIODE U05G	
D611	=>8-719-911-55	DIODE U05G	
D612	=>8-719-911-55	DIODE U05G	
D613	=>8-719-911-55	DIODE U05G	
D615	8-719-102-91	DIODE RD10EN3	
D620	=>8-719-200-02	DIODE 10E2	
D621	=>8-719-200-02	DIODE 10E2	
D622	=>8-719-200-02	DIODE 10E2	
D623	=>8-719-200-02	DIODE 10E2	
D624	8-719-102-68	DIODE RD5.1EN2	
D625	8-719-102-68	DIODE RD5.1EN2	
D626	8-719-103-61	DIODE RD15JN2	
D627	8-719-103-61	DIODE RD15JN2	
CONNECTOR			
FA1	=>1-506-371-00	2P PLUG (L)	
FA2	=>1-508-765-00	3P PLUG (M)	
FA3	=>1-508-765-00	3P PLUG (M)	
FA4	=>1-506-371-00	2P PLUG (L)	
FA5	=>1-508-767-00	5P PLUG	
FA6	=>1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
FA7	=>1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
FUSE			
F610	=>1-532-259-00	TIME-LAG FUSE 1.6A	
F611	=>1-532-259-00	TIME-LAG FUSE 1.6A	
F612	=>1-532-259-00	TIME-LAG FUSE 1.6A	
TRANSISTOR			
Q610	8-729-238-32	TRANSISTOR 2SC2383	
Q611	8-729-309-06	TRANSISTOR 2SC1890A	
Q620	8-729-177-43	TRANSISTOR 2SD774	
Q621	=>8-729-317-63	TRANSISTOR 2SD476A	

NOTE:

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CAPACITORS
MF: μ F, PF: μ PF

RESISTORS
All resistors are in ohms
F: nonflammable

COILS
MMH: mH, UH: μ H

F A C D

Ref.No	Part No	Description	Remark
R642	1-246-497-00	CARBON 10K 5% 1/4W	
R643	1-246-521-00	CARBON 100K 5% 1/4W	
R644	1-246-509-00	CARBON 33K 5% 1/4W	
R645	1-246-521-00	CARBON 100K 5% 1/4W	
R646	1-246-497-00	CARBON 10K 5% 1/4W	
R647	1-246-497-00	CARBON 10K 5% 1/4W	

VARIABLE RESISTOR

RV610	1-226-819-00	RES, ADJ, CARBON 1K
RV620	1-226-819-00	RES, ADJ, CARBON 1K
RV621	1-226-819-00	RES, ADJ, CARBON 1K

THERMISTOR

TH610	1-800-070-XX	THERMISTOR TH-4700
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POST PIN

TP91	1-536-354-00	POST PIN
TP92	1-536-354-00	POST PIN
TP93	1-536-354-00	POST PIN

A-1330-316-A C BOARD, COMPLETE

A-1-509-845-00	CONNECTOR ASSY, 3P
1-526-086-XX	SOCKET, CRT
A-1-555-037-00	CONNECTOR ASSY, MINIATURE 3P
A-1-604-888-00	PC BOARD, C

CAPACITOR

C780	1-129-739-00	FILM 0.1MF 20% 630V
C781	1-102-327-00	CERAMIC 330PF 15% 1.5KV
C782	1-108-433-00	MYLAR 0.1MF 10% 200V

DIODE

D780	8-719-926-20	DIODE ERB26-20
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NEON LAMP

NL780	1-519-108-XX	LAMP, NEON ASSY
NL781	1-519-108-XX	LAMP, NEON ASSY

RESISTOR

R780	1-202-581-00	COMPOSITION 2.2K 5% 1/2W
R781	1-202-581-00	COMPOSITION 2.2K 5% 1/2W
R782	1-202-581-00	COMPOSITION 2.2K 5% 1/2W
R783	1-202-605-00	COMPOSITION 22K 5% 1/2W
R784	1-202-545-15	COMPOSITION 68 5% 1/2W
R785	1-202-667-00	COMPOSITION 8.2M 5% 1/2W
R786	1-202-629-00	COMPOSITION 220K 5% 1/2W
R787	1-202-637-00	COMPOSITION 470K 5% 1/2W
R788	1-202-639-00	COMPOSITION 560K 5% 1/2W
R789	1-202-597-00	COMPOSITION 10K 5% 1/2W

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COILS
MMH : mH, UH : μ H

<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>	<u>Remark</u>
C837	1-102-030-00	CERAMIC 330PF 10% 500V	
C838	1-108-369-00	MYLAR 0.0022MF 10% 100V	
C839	1-123-381-00	ELECT 2.2MF 20% 50V	
C840	1-123-381-00	ELECT 2.2MF 20% 50V	
C841	1-108-385-00	MYLAR 0.047MF 10% 100V	

C842	1-102-232-00	CERAMIC 470PF 20% 500V
C843	1-130-330-00	FILM 1.4MF 5% 200V
C844	1-130-157-00	FILM 1MF 5% 200V
C845	1-130-179-00	FILM 2MF 5% 200V
C846	1-108-389-00	MYLAR 0.1MF 10% 100V

C847	1-129-886-00	FILM 0.0068MF 5% 1.5KV
C848	1-123-333-00	ELECT 100MF 20% 16V
C849	1-123-333-00	ELECT 100MF 20% 16V
C850	1-123-362-00	ELECT 330MF 20% 50V
C851	1-123-362-00	ELECT 330MF 20% 50V

C852	1-123-362-00	ELECT 330MF 20% 50V
C853	1-102-219-00	CERAMIC 680PF 20% 1KV
C854	1-123-253-00	ELECT 22MF 20% 160V
C860	1-123-330-00	ELECT 22MF 20% 16V
C861	1-123-329-00	ELECT 10MF 20% 25V

C864	1-108-423-00	MYLAR 0.015MF 10% 200V
C865	1-123-318-00	ELECT 33MF 20% 16V
C866	1-108-377-00	MYLAR 0.01MF 10% 100V
C867	1-108-393-00	MYLAR 0.22MF 10% 100V
C870	1-108-385-00	MYLAR 0.047MF 10% 100V

C871	1-108-383-00	MYLAR 0.033MF 10% 100V
C872	1-108-385-00	MYLAR 0.047MF 10% 100V
C873	1-108-385-00	MYLAR 0.047MF 10% 100V
C874	1-121-806-00	ELECT 10MF 20% 16V
C875	1-108-393-00	MYLAR 0.22MF 10% 100V

C877	1-123-330-00	ELECT 22MF 20% 16V
C878	1-130-157-00	FILM 1MF 5% 200V
C879	1-102-219-00	CERAMIC 680PF 20% 1KV
C880	1-102-219-00	CERAMIC 680PF 20% 1KV
C881	1-123-331-00	ELECT 33MF 20% 25V

C882	1-108-421-00	MYLAR 0.01MF 10% 200V
C885	1-123-333-00	ELECT 100MF 20% 25V
C886	1-101-845-00	CERAMIC 0.001MF 500V
C888	1-102-125-00	CERAMIC 0.0047MF 10% 50V
C889	1-101-006-00	CERAMIC 0.047MF 50V

C890	1-101-006-00	CERAMIC 0.047MF 50V
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CONNECTOR

D1	A-1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D2	A-1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
D3	A-1-508-767-00	5P PLUG
D4	A-1-508-765-00	3P PLUG (M)
D5	A-1-508-765-00	3P PLUG (M)
D6	A-1-508-765-00	3P PLUG (M)
D7	A-1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
D8	A-1-508-765-00	3P PLUG (M)
D9	A-1-506-347-21	4P PLUG
D10	A-1-506-348-XX	3P PLUG (L)

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D

Ref.No	Part No	Description	Remark
L809	1-421-364-00	COIL, FERRITE CHOKE PCC	
L810	1-459-111-00	COIL, DRAM CORE (CDI) 10MH	
L811	1-407-780-00	COIL, SPOOK CHOKE 3.3MH	
L812	1-407-780-00	COIL, SPOOK CHOKE 3.3MH	
L813	1-408-243-00	MICRO INDUCTOR 12MMH	
L814	1-408-160-00	MICRO INDUCTOR 15MMH	
TRANSISTOR			
Q516	8-763-613-00	TRANSISTOR 2SC1810	
Q801	=>8-729-178-54	TRANSISTOR 2SC2785	
Q802	=>8-729-178-54	TRANSISTOR 2SC2785	
Q803	8-765-012-20	TRANSISTOR 2SC1811	
Q804	=>8-729-341-34	TRANSISTOR 2SC1413A	
Q805	=>8-729-178-54	TRANSISTOR 2SC2785	
Q806	8-729-117-54	TRANSISTOR 2SA1175	
Q808	8-729-313-82	TRANSISTOR 2SD1138	
Q809	8-729-387-36	TRANSISTOR 2SC867A	
Q810	=>8-729-195-92	TRANSISTOR 2SC2959	
Q813	=>8-729-178-54	TRANSISTOR 2SC2785	
Q814	=>8-729-178-54	TRANSISTOR 2SC2785	
Q815	=>8-729-178-54	TRANSISTOR 2SC2785	
Q816	8-760-612-10	TRANSISTOR 2SA773-12	
Q817	=>8-729-178-54	TRANSISTOR 2SC2785	
Q818	=>8-729-178-54	TRANSISTOR 2SC2785	
Q819	8-726-420-00	THYRISTOR SG264A	
Q820	=>8-729-341-34	TRANSISTOR 2SC1413A	
Q821	8-729-117-54	TRANSISTOR 2SA1175	
Q822	8-729-117-54	TRANSISTOR 2SA1175	
Q823	8-729-117-54	TRANSISTOR 2SA1175	
Q824	8-729-313-82	TRANSISTOR 2SD1138	
Q825	8-729-386-12	TRANSISTOR 2SB861	
Q826	=>8-729-195-92	TRANSISTOR 2SC2959	
Q827	=>8-729-178-54	TRANSISTOR 2SC2785	
Q828	=>8-719-901-24	THYRISTOR CV12E	
Q829	=>8-719-901-24	THYRISTOR CV12E	
Q831	=>8-729-178-54	TRANSISTOR 2SC2785	
Q832	=>8-729-178-54	TRANSISTOR 2SC2785	
Q833	=>8-729-306-92	TRANSISTOR 2SD669A	
Q834	=>8-729-304-92	TRANSISTOR 2SB649A	
Q871	8-729-309-06	TRANSISTOR 2SC1890A	
RESISTOR			
R556	1-206-664-00	METAL 1K 5% 2W F	
R571	1-246-449-00	CARBON 100 5% 1/4W	
R572	1-213-144-00	METAL 1.2K 5% 1W F	
R573	1-206-680-00	METAL 4.7K 5% 2W F	
R574	1-246-475-00	CARBON 1.2K 5% 1/4W	
R575	1-246-475-00	CARBON 1.2K 5% 1/4W	
R576	1-246-515-00	CARBON 56K 5% 1/4W	
R577	1-246-481-00	CARBON 2.2K 5% 1/4W	
R578	1-246-473-00	CARBON 1K 5% 1/4W	
R579	1-206-680-00	METAL 4.7K 5% 2W F	

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D

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R853	1-213-146-00	METAL 1.8K 5% 1W F	
R854	1-206-672-00	METAL 2.2K 5% 2W F	
R855	1-206-459-00	METAL 6.8 5% 2W F	
R857	1-212-361-00	METAL 1.2 5% 1W F	
R858	1-212-364-00	METAL 2.2 5% 1W F	
R859	1-213-130-00	METAL 82 5% 1W F	
R860	1-246-979-00	CARBON 1.2 5% 1/8W F	
R861	1-246-979-00	CARBON 1.2 5% 1/8W F	
R862	1-246-979-00	CARBON 1.2 5% 1/8W F	
R863	1-246-783-00	CARBON 1K 5% 1/8W F	
R864	1-246-497-00	CARBON 10K 5% 1/4W	
R865	1-246-979-00	CARBON 1.2 5% 1/8W F	
R866	1-246-449-00	CARBON 100 5% 1/4W	
R867	1-211-409-00	CARBON 10 5% 1/8W F	
R869	1-211-409-00	CARBON 10 5% 1/8W F	
R871	1-246-451-00	CARBON 120 5% 1/4W	
R872	1-246-505-00	CARBON 22K 5% 1/4W	
R873	1-246-497-00	CARBON 10K 5% 1/4W	
R874	1-246-481-00	CARBON 2.2K 5% 1/4W	
R875	1-246-501-00	CARBON 15K 5% 1/4W	
R876	1-246-481-00	CARBON 2.2K 5% 1/4W	
R877	1-246-458-00	CARBON 240 5% 1/4W	
R878	1-246-481-00	CARBON 2.2K 5% 1/4W	
R879	1-246-981-00	CARBON 4.7 5% 1/8W F	
R880	1-246-981-00	CARBON 4.7 5% 1/8W F	
R881	1-246-979-00	CARBON 1.2 5% 1/8W F	
R882	1-246-457-00	CARBON 220 5% 1/4W	
R883	1-246-491-00	CARBON 5.6K 5% 1/4W	
R885	1-246-491-00	CARBON 5.6K 5% 1/4W	
R886	1-246-497-00	CARBON 10K 5% 1/4W	
R887	1-246-491-00	CARBON 5.6K 5% 1/4W	
R888	1-246-487-00	CARBON 3.9K 5% 1/4W	
R889	1-213-141-00	METAL 680 5% 1W F	
R890	1-246-473-00	CARBON 1K 5% 1/4W	
R891	1-214-150-00	METAL 5.6K 1% 1/4W	
R892	1-214-156-00	METAL 10K 1% 1/4W	
R893	1-246-491-00	CARBON 5.6K 5% 1/4W	
VARIABLE RESISTOR			
RV801	1-224-646-XX	RES, ADJ, CARBON 22K	
RV802	1-224-648-XX	RES, ADJ, CARBON 100K	
RV803	1-224-646-XX	RES, ADJ, CARBON 22K	
RV804	1-224-647-XX	RES, ADJ, CARBON 47K	
RV805	1-224-648-XX	RES, ADJ, CARBON 100K	
RV806	1-224-641-XX	RES, ADJ, CARBON 470	
RV808	1-224-641-XX	RES, ADJ, CARBON 470	
RV809	1-223-102-00	RES, ADJ, WIREWOUND 120	
SPARK GAP			
SG801	1-519-030-00	DISCHARGE ELEMENT	

Ref.No	Part No	Description	Remark
TRANSFORMER			
T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
T802	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
T803	1-439-282-00	TRANSFORMER, FERRITE (LOT)	
T804	1-439-241-00	TRANSFORMER, HORIZONTAL OUTPUT	

A-1347-003-A V BOARD, COMPLETE			

CAPACITOR			
C51	1-123-333-00	ELECT 100MF 20% 25V	
C52	1-123-329-00	ELECT 10MF 20% 25V	
C53	1-123-332-00	ELECT 47MF 20% 25V	
C54	1-101-006-00	CERAMIC 0.047MF 50V	
C55	1-123-331-00	ELECT 33MF 20% 25V	
C56	1-101-004-00	CERAMIC 0.01MF 50V	
C57	1-123-333-00	ELECT 100MF 20% 25V	
C58	1-123-329-00	ELECT 10MF 20% 25V	
C59	1-123-332-00	ELECT 47MF 20% 25V	
C60	1-101-006-00	CERAMIC 0.047MF 50V	
C61	1-123-331-00	ELECT 33MF 20% 25V	
C62	1-123-331-00	ELECT 33MF 20% 25V	
C63	1-101-004-00	CERAMIC 0.01MF 50V	
C64	1-123-331-00	ELECT 33MF 20% 25V	
C65	1-123-333-00	ELECT 100MF 20% 25V	
C66	1-123-329-00	ELECT 10MF 20% 25V	
C67	1-123-332-00	ELECT 47MF 20% 25V	
C68	1-123-331-00	ELECT 33MF 20% 25V	
C69	1-101-006-00	CERAMIC 0.047MF 50V	
C70	1-123-331-00	ELECT 33MF 20% 25V	
C71	1-102-529-00	CERAMIC 100PF 5% 50V	
C72	1-123-329-00	ELECT 10MF 20% 25V	
C73	1-123-332-00	ELECT 47MF 20% 25V	
C74	1-123-332-00	ELECT 47MF 20% 25V	
C75	1-123-331-00	ELECT 33MF 20% 25V	
C76	1-123-331-00	ELECT 33MF 20% 25V	
C77	1-123-331-00	ELECT 33MF 20% 25V	
C78	1-123-332-00	ELECT 47MF 20% 16V	
C79	1-101-006-00	CERAMIC 0.047MF 50V	
C81	1-102-851-00	CERAMIC 15PF 5% 50V	
C82	1-102-518-00	CERAMIC 33PF 5% 50V	
C83	1-123-356-00	ELECT 10MF 20% 16V	
C84	1-101-003-00	CERAMIC 0.0047MF 50V	
C85	1-108-242-00	MYLAR 0.022MF 10% 50V	
C86	1-123-332-00	ELECT 47MF 20% 16V	
C87	1-123-330-00	ELECT 22MF 20% 16V	
C88	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C89	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C90	1-108-579-00	MYLAR 0.01MF 5% 50V	
C91	1-108-845-00	MYLAR 0.047MF 10% 50V	
C92	1-102-973-00	CERAMIC 100PF 5% 50V	

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V

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
C94	1-108-567-00	MYLAR	0.0033MF	5%	50V	C150	1-101-006-00	CERAMIC	0.047MF	50V	C558	1-101-006-00	CERAMIC	0.047MF	50V	
C95	1-108-579-00	MYLAR	0.01MF	5%	50V	C151	1-101-006-00	CERAMIC	0.047MF	50V	C584	1-101-003-00	CERAMIC	0.0047MF	50V	
C96	1-123-356-00	ELECT	10MF	20%	16V	C152	1-101-006-00	CERAMIC	0.047MF	50V	C117A	1-102-531-00	CERAMIC	150PF	5%	
C97	1-102-114-00	CERAMIC	470PF	10%	50V	C153	1-101-006-00	CERAMIC	0.047MF	50V	C117B	1-102-529-00	CERAMIC	100PF	5%	
C98	1-108-845-00	MYLAR	0.047MF	10%	50V	C154	1-101-006-00	CERAMIC	0.047MF	50V	DIODE					
C100	1-102-978-00	CERAMIC	220PF	5%	50V	C155	1-101-006-00	CERAMIC	0.047MF	50V	D51	=>8-719-911-19	DIODE	1SS119		
C101	1-102-971-00	CERAMIC	82PF	5%	50V	C156	1-123-332-00	ELECT	47MF	20%	D52	=>8-719-911-19	DIODE	1SS119		
C102	1-102-529-00	CERAMIC	100PF	5%	50V	C157	1-123-356-00	ELECT	10MF	20%	D53	=>8-719-911-19	DIODE	1SS119		
C103	1-102-529-00	CERAMIC	100PF	5%	50V	C160	1-101-006-00	CERAMIC	0.047MF	50V	D54	=>8-719-911-19	DIODE	1SS119		
C104	1-102-973-00	CERAMIC	100PF	5%	50V	C161	1-101-006-00	CERAMIC	0.047MF	50V	D55	=>8-719-911-19	DIODE	1SS119		
C105	1-101-361-00	CERAMIC	150PF	5%	50V	C501	1-108-389-00	MYLAR	0.1MF	10%	D56	=>8-719-911-19	DIODE	1SS119		
C106	1-102-978-00	CERAMIC	220PF	5%	50V	C502	1-102-074-00	CERAMIC	0.001MF	10%	D57	=>8-719-911-19	DIODE	1SS119		
C107	1-102-531-00	CERAMIC	150PF	5%	50V	C503	1-108-389-00	MYLAR	0.1MF	10%	D58	=>8-719-911-19	DIODE	1SS119		
C108	1-102-531-00	CERAMIC	150PF	5%	50V	C504	1-123-381-00	ELECT	2.2MF	20%	D59	=>8-719-911-19	DIODE	1SS119		
C109	1-102-978-00	CERAMIC	220PF	5%	50V	C506	1-130-457-00	FILM	0.1MF	5%	D60	=>8-719-911-19	DIODE	1SS119		
C110	1-102-531-00	CERAMIC	150PF	5%	50V	C507	1-108-381-00	MYLAR	0.022MF	10%	D61	=>8-719-911-19	DIODE	1SS119		
C111	1-102-531-00	CERAMIC	150PF	5%	50V	C508	1-108-385-00	MYLAR	0.047MF	10%	D62	=>8-719-911-19	DIODE	1SS119		
C112	1-102-978-00	CERAMIC	220PF	5%	50V	C510	1-108-383-00	MYLAR	0.033MF	10%	D63	=>8-719-911-19	DIODE	1SS119		
C113	1-102-529-00	CERAMIC	100PF	5%	50V	C511	1-108-373-00	MYLAR	0.0047MF	10%	D64	=>8-719-911-19	DIODE	1SS119		
C114	1-102-978-00	CERAMIC	220PF	5%	50V	C512	1-123-380-00	ELECT	1MF	20%	D65	=>8-719-911-19	DIODE	1SS119		
C115	1-102-531-00	CERAMIC	150PF	5%	50V	C513	1-123-381-00	ELECT	2.2MF	20%	D66	=>8-719-911-19	DIODE	1SS119		
C116	1-101-006-00	CERAMIC	0.047MF		50V	C514	1-108-381-00	MYLAR	0.022MF	10%	D69	=>8-719-911-19	DIODE	1SS119		
C118	1-101-006-00	CERAMIC	0.047MF		50V	C515	1-108-381-00	MYLAR	0.022MF	10%	D69	=>8-719-911-19	DIODE	1SS119		
C119	1-102-978-00	CERAMIC	220PF	5%	50V	C516	1-102-114-00	CERAMIC	470PF	10%	D501	=>8-719-911-19	DIODE	1SS119		
C120	1-101-006-00	CERAMIC	0.047MF		50V	C517	1-123-369-00	ELECT	4.7MF	20%	D502	=>8-719-911-19	DIODE	1SS119		
C121	1-101-006-00	CERAMIC	0.047MF		50V	C518	1-123-332-00	ELECT	47MF	20%	D503	=>8-719-911-19	DIODE	1SS119		
C122	1-101-006-00	CERAMIC	0.047MF		50V	C519	1-106-196-00	MYLAR	0.01MF	5%	D504	=>8-719-911-19	DIODE	1SS119		
C123	1-102-978-00	CERAMIC	220PF	5%	50V	C520	1-129-701-00	FILM	0.01MF	5%	D505	=>8-719-911-19	DIODE	1SS119		
C124	1-102-978-00	CERAMIC	220PF	5%	50V	C521	1-108-365-00	MYLAR	0.001MF	10%	D506	=>8-719-911-19	DIODE	1SS119		
C125	1-102-978-00	CERAMIC	220PF	5%	50V	C522	1-102-983-00	CERAMIC	220PF	10%	D507	=>8-719-911-19	DIODE	1SS119		
C126	1-102-978-00	CERAMIC	220PF	5%	50V	C524	1-101-004-00	CERAMIC	0.01MF		D510	=>8-719-911-19	DIODE	1SS119		
C127	1-102-978-00	CERAMIC	220PF	5%	50V	C525	1-101-004-00	CERAMIC	0.01MF		D511	=>8-719-422-21	DIODE	1T22AM		
C128	1-102-852-00	CERAMIC	47PF	5%	50V	C526	1-101-004-00	CERAMIC	0.01MF		D512	=>8-719-422-21	DIODE	1T22AM		
C130	1-123-333-00	ELECT	100MF	20%	16V	C527	1-101-004-00	CERAMIC	0.01MF		D513	=>8-719-911-19	DIODE	1SS119		
C131	1-123-333-00	ELECT	100MF	20%	16V	C528	1-123-379-00	ELECT	0.47MF	20%	D514	=>8-719-911-19	DIODE	1SS119		
C132	1-123-333-00	ELECT	100MF	20%	16V	C531	1-108-381-00	MYLAR	0.022MF	10%	IC					
C133	1-123-333-00	ELECT	100MF	20%	16V	C538	1-121-806-00	ELECT	10MF	20%	IC51	8-759-240-24	IC	TC4024BP		
C134	1-123-333-00	ELECT	100MF	20%	16V	C539	1-121-806-00	ELECT	10MF	20%	IC52	8-759-240-11	IC	TC4011BP		
C135	1-101-006-00	CERAMIC	0.047MF		50V	C540	1-121-806-00	ELECT	10MF	20%	IC53	8-759-240-11	IC	TC4011BP		
C136	1-101-006-00	CERAMIC	0.047MF		50V	C541	1-101-004-00	CERAMIC	0.01MF		IC54	8-759-240-23	IC	TC4023BP		
C137	1-101-006-00	CERAMIC	0.047MF		50V	C542	1-101-004-00	CERAMIC	0.01MF		IC55	8-759-240-11	IC	TC4011BP		
C138	1-101-006-00	CERAMIC	0.047MF		50V	C543	1-101-004-00	CERAMIC	0.01MF		IC56	8-759-240-01	IC	TC4001BP		
C139	1-101-006-00	CERAMIC	0.047MF		50V	C544	1-102-529-00	CERAMIC	100PF	5%	IC57	8-759-245-20	IC	TC4520BP		
C140	1-101-006-00	CERAMIC	0.047MF		50V	C545	1-102-529-00	CERAMIC	100PF	5%	IC58	8-759-240-11	IC	TC4011BP		
C141	1-101-006-00	CERAMIC	0.047MF		50V	C546	1-108-385-00	MYLAR	0.047MF	10%	IC59	8-759-240-11	IC	TC4011BP		
C142	1-101-006-00	CERAMIC	0.047MF		50V	C547	1-123-356-00	ELECT	10MF	20%	IC60	8-759-240-11	IC	TC4011BP		
C143	1-101-006-00	CERAMIC	0.047MF		50V	C548	1-121-806-00	ELECT	10MF	20%	IC61	8-759-240-11	IC	TC4011BP		
C144	1-101-006-00	CERAMIC	0.047MF		50V	C550	1-102-529-00	CERAMIC	100PF	5%	IC62	=>8-759-245-28	IC	TC4528BP		
C145	1-101-006-00	CERAMIC	0.047MF		50V	C551	1-106-196-00	MYLAR	0.01MF	5%	IC63	=>8-759-245-28	IC	TC4528BP		
C146	1-101-006-00	CERAMIC	0.047MF		50V	C553	1-101-003-00	CERAMIC	0.0047MF		IC64	=>8-759-245-28	IC	TC4528BP		
C147	1-101-006-00	CERAMIC	0.047MF		50V	C555	1-101-003-00	CERAMIC	0.0047MF		IC65	=>8-759-245-28	IC	TC4528BP		
C148	1-101-006-00	CERAMIC	0.047MF		50V	C556	1-123-333-00	ELECT	100MF	20%	IC66	8-751-300-00	IC	CX130		
C149	1-101-006-00	CERAMIC	0.047MF		50V	C557	1-108-383-00	MYLAR	0.033MF	10%						

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V

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q504	=>8-729-178-54	TRANSISTOR 2SC2785		R83	1-246-457-00	CARBON 220 5% 1/4W	
Q505	=>8-729-178-54	TRANSISTOR 2SC2785		R84	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q506	=>8-729-178-54	TRANSISTOR 2SC2785		R85	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q507	=>8-729-178-54	TRANSISTOR 2SC2785		R86	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q508	=>8-729-178-54	TRANSISTOR 2SC2785		R87	1-246-503-00	CARBON 18K 5% 1/4W	
Q509	=>8-729-178-54	TRANSISTOR 2SC2785		R88	1-246-505-00	CARBON 22K 5% 1/4W	
Q510	=>8-729-178-54	TRANSISTOR 2SC2785		R89	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q511	=>8-729-178-54	TRANSISTOR 2SC2785		R90	1-246-515-00	CARBON 56K 5% 1/4W	
Q512	=>8-729-178-54	TRANSISTOR 2SC2785		R91	1-246-491-00	CARBON 5.6K 5% 1/4W	
Q513	=>8-729-178-54	TRANSISTOR 2SC2785		R92	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q514	=>8-729-178-54	TRANSISTOR 2SC2785		R93	1-246-503-00	CARBON 18K 5% 1/4W	
Q515	=>8-729-178-54	TRANSISTOR 2SC2785		R94	1-246-505-00	CARBON 22K 5% 1/4W	
Q516	=>8-719-117-54	TRANSISTOR 2SA1175		R95	1-246-449-00	CARBON 100 5% 1/4W	
Q518	=>8-729-178-54	TRANSISTOR 2SC2785		R96	1-246-441-00	CARBON 47 5% 1/4W	
Q519	=>8-729-178-54	TRANSISTOR 2SC2785		R97	1-246-507-00	CARBON 27K 5% 1/4W	
Q520	=>8-719-117-54	TRANSISTOR 2SA1175		R98	1-246-497-00	CARBON 10K 5% 1/4W	
Q521	=>8-729-178-54	TRANSISTOR 2SC2785		R99	1-246-473-00	CARBON 1K 5% 1/4W	
Q522	=>8-729-178-54	TRANSISTOR 2SC2785		R100	1-214-149-00	METAL 5.1K 1% 1/4W	
Q523	=>8-729-178-54	TRANSISTOR 2SC2785		R101	1-214-149-00	METAL 5.1K 1% 1/4W	
				R102	1-246-489-00	CARBON 4.7K 5% 1/4W	
RESISTOR				R103	1-246-483-00	CARBON 2.7K 5% 1/4W	
R51	1-246-497-00	CARBON 10K 5% 1/4W		R104	1-246-501-00	CARBON 15K 5% 1/4W	
R52	1-246-517-00	CARBON 68K 5% 1/4W		R105	1-246-473-00	CARBON 1K 5% 1/4W	
R53	1-246-473-00	CARBON 1K 5% 1/4W		R106	1-246-501-00	CARBON 15K 5% 1/4W	
R54	1-246-507-00	CARBON 27K 5% 1/4W		R107	1-246-458-00	CARBON 240 5% 1/4W	
R55	1-246-489-00	CARBON 4.7K 5% 1/4W		R108	1-246-425-00	CARBON 10 5% 1/4W	
R56	1-246-449-00	CARBON 100 5% 1/4W		R109	1-246-460-00	CARBON 300 5% 1/4W	
R57	1-246-491-00	CARBON 5.6K 5% 1/4W		R110	1-246-473-00	CARBON 1K 5% 1/4W	
R58	1-246-479-00	CARBON 1.8K 5% 1/4W		R111	1-246-531-00	CARBON 270K 5% 1/4W	
R59	1-246-491-00	CARBON 5.6K 5% 1/4W		R112	1-246-531-00	CARBON 270K 5% 1/4W	
R60	1-246-497-00	CARBON 10K 5% 1/4W		R113	1-246-497-00	CARBON 10K 5% 1/4W	
R61	1-246-517-00	CARBON 68K 5% 1/4W		R114	1-246-489-00	CARBON 4.7K 5% 1/4W	
R62	1-246-473-00	CARBON 1K 5% 1/4W		R115	1-246-462-00	CARBON 360 5% 1/4W	
R63	1-246-507-00	CARBON 27K 5% 1/4W		R116	1-246-473-00	CARBON 1K 5% 1/4W	
R64	1-246-489-00	CARBON 4.7K 5% 1/4W		R117	1-246-467-00	CARBON 560 5% 1/4W	
R65	1-246-449-00	CARBON 100 5% 1/4W		R118	1-246-477-00	CARBON 1.5K 5% 1/4W	
R66	1-246-479-00	CARBON 1.8K 5% 1/4W		R119	1-246-490-00	CARBON 5.1K 5% 1/4W	
R67	1-246-505-00	CARBON 22K 5% 1/4W		R120	1-246-501-00	CARBON 15K 5% 1/4W	
R68	1-246-503-00	CARBON 18K 5% 1/4W		R121	1-246-483-00	CARBON 2.7K 5% 1/4W	
R69	1-246-471-00	CARBON 820 5% 1/4W		R122	1-246-507-00	CARBON 27K 5% 1/4W	
R70	1-246-497-00	CARBON 10K 5% 1/4W		R123	1-246-539-00	CARBON 560K 5% 1/4W	
R71	1-246-517-00	CARBON 68K 5% 1/4W		R124	1-246-516-00	CARBON 62K 5% 1/4W	
R72	1-246-473-00	CARBON 1K 5% 1/4W		R125	1-246-483-00	CARBON 2.7K 5% 1/4W	
R73	1-246-507-00	CARBON 27K 5% 1/4W		R126	1-246-469-00	CARBON 680 5% 1/4W	
R74	1-246-489-00	CARBON 4.7K 5% 1/4W		R127	1-246-497-00	CARBON 10K 5% 1/4W	
R75	1-246-449-00	CARBON 100 5% 1/4W		R128	1-246-512-00	CARBON 43K 5% 1/4W	
R76	1-246-449-00	CARBON 100 5% 1/4W		R129	1-246-485-00	CARBON 3.3K 5% 1/4W	
R77	1-246-481-00	CARBON 2.2K 5% 1/4W		R130	1-246-505-00	CARBON 22K 5% 1/4W	
R78	1-246-449-00	CARBON 100 5% 1/4W		R131	1-214-156-00	METAL 10K 1% 1/4W	
R79	1-246-505-00	CARBON 22K 5% 1/4W		R132	1-214-145-00	METAL 3.6K 1% 1/4W	
R80	1-246-513-00	CARBON 47K 5% 1/4W		R133	1-214-151-00	METAL 6.2K 1% 1/4W	
R81	1-246-530-00	CARBON 240K 5% 1/4W		R134	1-214-155-00	METAL 9.1K 1% 1/4W	
R82	1-246-497-00	CARBON 10K 5% 1/4W		R135	1-246-497-00	CARBON 10K 5% 1/4W	

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Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R136	1-214-173-00	METAL 51K 1% 1/4W		R202	1-246-497-00	CARBON 10K 5% 1/4W	
R137	1-246-497-00	CARBON 10K 5% 1/4W		R203	1-246-497-00	CARBON 10K 5% 1/4W	
R138	1-246-497-00	CARBON 10K 5% 1/4W		R204	1-246-505-00	CARBON 22K 5% 1/4W	
R139	1-246-516-00	CARBON 62K 5% 1/4W		R205	1-246-497-00	CARBON 10K 5% 1/4W	
R140	1-246-493-00	CARBON 6.8K 5% 1/4W		R206	1-246-505-00	CARBON 22K 5% 1/4W	
R143	1-246-497-00	CARBON 10K 5% 1/4W		R207	1-246-497-00	CARBON 10K 5% 1/4W	
R144	1-246-497-00	CARBON 10K 5% 1/4W		R208	1-246-505-00	CARBON 22K 5% 1/4W	
R145	1-246-516-00	CARBON 62K 5% 1/4W		R209	1-246-497-00	CARBON 10K 5% 1/4W	
R146	1-246-521-00	CARBON 100K 5% 1/4W		R210	1-246-497-00	CARBON 10K 5% 1/4W	
R147	1-246-509-00	CARBON 33K 5% 1/4W		R211	1-246-497-00	CARBON 10K 5% 1/4W	
R148	1-246-505-00	CARBON 22K 5% 1/4W		R212	1-246-505-00	CARBON 22K 5% 1/4W	
R149	1-246-505-00	CARBON 22K 5% 1/4W		R213	1-246-497-00	CARBON 10K 5% 1/4W	
R150	1-246-509-00	CARBON 33K 5% 1/4W		R214	1-246-497-00	CARBON 10K 5% 1/4W	
R151	1-246-501-00	CARBON 15K 5% 1/4W		R215	1-246-505-00	CARBON 22K 5% 1/4W	
R154	1-246-497-00	CARBON 10K 5% 1/4W		R216	1-246-497-00	CARBON 10K 5% 1/4W	
R155	1-246-497-00	CARBON 10K 5% 1/4W		R217	1-246-497-00	CARBON 10K 5% 1/4W	
R156	1-246-517-00	CARBON 68K 5% 1/4W		R218	1-246-505-00	CARBON 22K 5% 1/4W	
R157	1-246-497-00	CARBON 10K 5% 1/4W		R219	1-246-497-00	CARBON 10K 5% 1/4W	
R158	1-246-505-00	CARBON 22K 5% 1/4W		R221	1-246-497-00	CARBON 10K 5% 1/4W	
R159	1-246-497-00	CARBON 10K 5% 1/4W		R222	1-246-497-00	CARBON 10K 5% 1/4W	
R160	1-246-505-00	CARBON 22K 5% 1/4W		R223	1-246-497-00	CARBON 10K 5% 1/4W	
R161	1-246-497-00	CARBON 10K 5% 1/4W		R224	1-246-497-00	CARBON 10K 5% 1/4W	
R162	1-246-497-00	CARBON 10K 5% 1/4W		R225	1-246-485-00	CARBON 3.3K 5% 1/4W	
R163	1-246-497-00	CARBON 10K 5% 1/4W		R226	1-246-505-00	CARBON 22K 5% 1/4W	
R164	1-246-505-00	CARBON 22K 5% 1/4W		R230	1-246-529-00	CARBON 220K 5% 1/4W	
R165	1-246-497-00	CARBON 10K 5% 1/4W		R231	1-246-537-00	CARBON 470K 5% 1/4W	
R166	1-214-179-00	METAL 91K 1% 1/4W		R232	1-246-507-00	CARBON 27K 5% 1/4W	
R167	1-246-497-00	CARBON 10K 5% 1/4W		R233	1-246-497-00	CARBON 10K 5% 1/4W	
R168	1-246-505-00	CARBON 22K 5% 1/4W		R234	1-246-497-00	CARBON 10K 5% 1/4W	
R169	1-246-497-00	CARBON 10K 5% 1/4W		R501	1-246-491-00	CARBON 5.6K 5% 1/4W	
R170	1-246-515-00	CARBON 56K 5% 1/4W		R502	1-246-501-00	CARBON 15K 5% 1/4W	
R171	1-246-511-00	CARBON 39K 5% 1/4W		R503	1-246-505-00	CARBON 22K 5% 1/4W	
R172	1-246-505-00	CARBON 22K 5% 1/4W		R504	1-246-491-00	CARBON 5.6K 5% 1/4W	
R173	1-246-497-00	CARBON 10K 5% 1/4W		R505	1-246-491-00	CARBON 5.6K 5% 1/4W	
R174	1-246-505-00	CARBON 22K 5% 1/4W		R506	1-246-505-00	CARBON 22K 5% 1/4W	
R175	1-246-485-00	CARBON 3.3K 5% 1/4W		R507	1-246-507-00	CARBON 27K 5% 1/4W	
R178	1-246-485-00	CARBON 3.3K 5% 1/4W		R508	1-246-513-00	CARBON 47K 5% 1/4W	
R179	1-246-505-00	CARBON 22K 5% 1/4W		R509	1-202-463-00	COMPOSITION 2.2M 5% 1/4W	
R182	1-246-531-00	CARBON 270K 5% 1/4W		R510	1-246-521-00	CARBON 100K 5% 1/4W	
R183	1-246-497-00	CARBON 10K 5% 1/4W		R511	1-202-463-00	COMPOSITION 2.2M 5% 1/4W	
R184	1-246-505-00	CARBON 22K 5% 1/4W		R512	1-246-521-00	CARBON 100K 5% 1/4W	
R185	1-246-497-00	CARBON 10K 5% 1/4W		R513	1-246-457-00	CARBON 220 5% 1/4W	
R187	1-246-505-00	CARBON 22K 5% 1/4W		R514	1-246-497-00	CARBON 10K 5% 1/4W	
R189	1-246-534-00	CARBON 360K 5% 1/4W		R515	1-246-537-00	CARBON 470K 5% 1/4W	
R190	1-246-505-00	CARBON 22K 5% 1/4W		R516	1-246-497-00	CARBON 10K 5% 1/4W	
R192	1-246-505-00	CARBON 22K 5% 1/4W		R517	1-246-513-00	CARBON 47K 5% 1/4W	
R195	1-246-505-00	CARBON 22K 5% 1/4W		R518	1-246-533-00	CARBON 330K 5% 1/4W	
R196	1-246-505-00	CARBON 22K 5% 1/4W		R519	1-246-511-00	CARBON 39K 5% 1/4W	
R197	1-246-497-00	CARBON 10K 5% 1/4W		R520	1-246-482-00	CARBON 2.4K 5% 1/4W	
R198	1-246-521-00	CARBON 100K 5% 1/4W		R521	1-246-505-00	CARBON 22K 5% 1/4W	
R199	1-246-505-00	CARBON 22K 5% 1/4W		R522	1-246-513-00	CARBON 47K 5% 1/4W	
R200	1-246-497-00	CARBON 10K 5% 1/4W		R523	1-246-521-00	CARBON 100K 5% 1/4W	
R201	1-246-505-00	CARBON 22K 5% 1/4W		R524	1-246-449-00	CARBON 100 5% 1/4W	

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V

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R525	1-246-497-00	CARBON 10K 5% 1/4W		R579	1-246-518-00	CARBON 75K 5% 1/4W	
R526	1-246-537-00	CARBON 470K 5% 1/4W		R580	1-246-473-00	CARBON 1K 5% 1/4W	
R527	1-246-495-00	CARBON 8.2K 5% 1/4W		R581	1-246-457-00	CARBON 220 5% 1/4W	
R528	1-246-479-00	CARBON 1.8K 5% 1/4W		R582	1-246-457-00	CARBON 220 5% 1/4W	
R529	1-246-492-00	CARBON 6.2K 5% 1/4W		R583	1-246-490-00	CARBON 5.1K 5% 1/4W	
R530	1-246-501-00	CARBON 15K 5% 1/4W		R584	1-246-505-00	CARBON 22K 5% 1/4W	
R531	1-246-490-00	CARBON 5.1K 5% 1/4W		R585	1-246-497-00	CARBON 10K 5% 1/4W	
R532	1-246-458-00	CARBON 240 5% 1/4W		R586	1-246-512-00	CARBON 43K 5% 1/4W	
R533	1-246-509-00	CARBON 33K 5% 1/4W		R587	1-246-505-00	CARBON 22K 5% 1/4W	
R534	1-246-489-00	CARBON 4.7K 5% 1/4W		R588	1-246-501-00	CARBON 15K 5% 1/4W	
R535	1-246-497-00	CARBON 10K 5% 1/4W		R589	1-246-513-00	CARBON 47K 5% 1/4W	
R536	1-246-521-00	CARBON 100K 5% 1/4W		R590	1-246-525-00	CARBON 150K 5% 1/4W	
R537	1-246-513-00	CARBON 47K 5% 1/4W		R591	1-246-505-00	CARBON 22K 5% 1/4W	
R538	1-246-509-00	CARBON 33K 5% 1/4W		R592	1-246-497-00	CARBON 10K 5% 1/4W	
R539	1-246-473-00	CARBON 1K 5% 1/4W		R593	1-246-493-00	CARBON 6.8K 5% 1/4W	
R540	1-246-489-00	CARBON 4.7K 5% 1/4W		R594	1-246-489-00	CARBON 4.7K 5% 1/4W	
R541	1-246-475-00	CARBON 1.2K 5% 1/4W		R595	1-246-521-00	CARBON 100K 5% 1/4W	
R542	1-246-495-00	CARBON 8.2K 5% 1/4W		R596	1-246-497-00	CARBON 10K 5% 1/4W	
R543	1-246-513-00	CARBON 47K 5% 1/4W		R597	1-246-487-00	CARBON 3.9K 5% 1/4W	
R544	1-246-513-00	CARBON 47K 5% 1/4W		R598	1-246-489-00	CARBON 4.7K 5% 1/4W	
R545	1-246-505-00	CARBON 22K 5% 1/4W		VARIABLE RESISTOR			
R546	1-246-513-00	CARBON 47K 5% 1/4W		RV51	1-224-647-XX	RES, ADJ, CARBON 47K	
R547	1-246-513-00	CARBON 47K 5% 1/4W		RV501	1-224-646-XX	RES, ADJ, CARBON 22K	
R548	1-202-463-00	COMPOSITION 2.2M 5% 1/4W		RV502	1-224-646-XX	RES, ADJ, CARBON 22K	
R549	1-246-513-00	CARBON 47K 5% 1/4W		RV503	1-226-819-00	RES, ADJ, CARBON 1K	
R550	1-246-513-00	CARBON 47K 5% 1/4W		RV504	1-224-641-XX	RES, ADJ, CARBON 470	
R551	1-246-525-00	CARBON 150K 5% 1/4W		RV505	1-224-640-XX	RES, ADJ, CARBON 330	
R552	1-246-521-00	CARBON 100K 5% 1/4W		RV506	1-224-646-XX	RES, ADJ, CARBON 22K	
R554	1-246-489-00	CARBON 4.7K 5% 1/4W		RV507	1-224-645-XX	RES, ADJ, CARBON 10K	
R555	1-246-477-00	CARBON 1.5K 5% 1/4W		RV508	1-224-644-XX	RES, ADJ, CARBON 3.3K	
R556	1-246-485-00	CARBON 3.3K 5% 1/4W		RV509	1-226-819-00	RES, ADJ, CARBON 1K	
R557	1-246-513-00	CARBON 47K 5% 1/4W		RV510	1-224-644-XX	RES, ADJ, CARBON 3.3K	
R558	1-246-513-00	CARBON 47K 5% 1/4W		RV511	1-224-646-XX	RES, ADJ, CARBON 22K	
R559	1-246-513-00	CARBON 47K 5% 1/4W		RV512	1-224-646-XX	RES, ADJ, CARBON 22K	
R560	1-246-491-00	CARBON 5.6K 5% 1/4W		RV513	1-224-646-XX	RES, ADJ, CARBON 22K	
R561	1-246-485-00	CARBON 3.3K 5% 1/4W		RV514	1-224-647-XX	RES, ADJ, CARBON 47K	
R562	1-246-477-00	CARBON 1.5K 5% 1/4W		RV515	1-224-644-XX	RES, ADJ, CARBON 4.7K	
R563	1-246-506-00	CARBON 24K 5% 1/4W		RV516	1-224-646-XX	RES, ADJ, CARBON 22K	
R564	1-246-493-00	CARBON 6.8K 5% 1/4W		RV517	1-224-640-XX	RES, ADJ, CARBON 330	
R565	1-246-496-00	CARBON 9.1K 5% 1/4W		RV518	1-224-645-XX	RES, ADJ, CARBON 10K	
R566	1-246-499-00	CARBON 12K 5% 1/4W		THERMISTOR			
R567	1-246-479-00	CARBON 1.8K 5% 1/4W		TH501	1-800-070-XX	THERMISTOR TH-4700	
R568	1-246-486-00	CARBON 3.6K 5% 1/4W		TH502	1-800-070-XX	THERMISTOR TH-4700	
R569	1-246-439-00	CARBON 39 5% 1/4W		POST PIN			
R570	1-246-473-00	CARBON 1K 5% 1/4W		TP31	1-536-354-00	POST PIN	
R571	1-246-490-00	CARBON 5.1K 5% 1/4W		TP32	1-536-354-00	POST PIN	
R572	1-246-529-00	CARBON 220K 5% 1/4W		TP33	1-536-354-00	POST PIN	
R573	1-246-521-00	CARBON 100K 5% 1/4W		TP34	1-536-354-00	POST PIN	
R574	1-246-481-00	CARBON 2.2K 5% 1/4W		TP35	1-536-354-00	POST PIN	
R575	1-246-481-00	CARBON 2.2K 5% 1/4W		TP36	1-536-354-00	POST PIN	
R576	1-246-521-00	CARBON 100K 5% 1/4W					
R577	1-246-497-00	CARBON 10K 5% 1/4W					
R578	1-246-523-00	CARBON 120K 5% 1/4W					

NOTE:

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All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
MF: μ F, PF: μ PF

RESISTORS
All resistors are in ohms
F: nonflammable

COILS
MMH: mH, UH: μ H

V HA HB F

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
TP86	1-536-354-00	POST PIN		RESISTOR			
TP87	1-536-354-00	POST PIN		R31	1-246-509-00	CARBON 33K 5% 1/4W	
				R33	1-246-509-00	CARBON 33K 5% 1/4W	
				R35	1-246-509-00	CARBON 33K 5% 1/4W	
				R37	1-246-509-00	CARBON 33K 5% 1/4W	
				R39	1-246-509-00	CARBON 33K 5% 1/4W	
				R41	1-246-509-00	CARBON 33K 5% 1/4W	
				R43	1-246-509-00	CARBON 33K 5% 1/4W	
				R44	1-246-509-00	CARBON 33K 5% 1/4W	
				R45	1-246-477-00	CARBON 1.5K 5% 1/4W	
				R46	1-246-509-00	CARBON 33K 5% 1/4W	
				R47	1-246-509-00	CARBON 33K 5% 1/4W	
				R48	1-246-509-00	CARBON 33K 5% 1/4W	
				R50	1-246-497-00	CARBON 10K 5% 1/4W	
				R51	1-246-497-00	CARBON 10K 5% 1/4W	
				R52	1-246-497-00	CARBON 10K 5% 1/4W	
				SWITCH			
				S31	1-552-267-00	SWITCH, LEVER SLIDE	
				S32	1-553-582-00	SWITCH, LEVER SLIDE	
				S33	1-552-267-00	SWITCH, LEVER SLIDE	

				HA BOARD			

				CAPACITOR			
C31	1-102-125-00	CERAMIC 0.0047MF 10% 50V					
				COMPOSITION CIRCUIT BLOCK			
CP31	1-231-810-00	COMPOSITION CIRCUIT BLOCK					
CP32	1-231-810-00	COMPOSITION CIRCUIT BLOCK					
				DIODE			
D31	=>8-719-911-19	DIODE 1SS119					
D32	=>8-719-911-19	DIODE 1SS119					
D33	=>8-719-911-19	DIODE 1SS119					
D34	=>8-719-911-19	DIODE 1SS119					
D35	=>8-719-911-19	DIODE 1SS119					
D36	=>8-719-911-19	DIODE 1SS119					
D38	=>8-719-911-19	DIODE 1SS119					
				CONNECTOR			
HA1	=>1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P					
HA2	=>1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					
HA3	=>1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P					
HA5	=>1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P					
HA6	=>1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)					
				IC			
IC31	8-759-240-01	IC TC4001BP					
				TRANSISTOR			
Q31	=>8-729-178-54	TRANSISTOR 2SC2785					

NOTE:

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CAPACITORS
MF: μ F, PF: μ PF

RESISTORS
All resistors are in ohms
F: nonflammable

COILS
MMH: mH, UH: μ H

Hc X Z

Ref.No	Part No	Description	Remark
RESISTOR			
R11	1-246-473-00	CARBON 1K 5% 1/4W	
R12	1-246-473-00	CARBON 1K 5% 1/4W	
R13	1-246-473-00	CARBON 1K 5% 1/4W	
R14	1-246-497-00	CARBON 10K 5% 1/4W	
R15	1-246-473-00	CARBON 1K 5% 1/4W	
VARIABLE RESISTOR			
RV11	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV12	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV13	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV14	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV15	1-224-917-00	RES, ADJ, METAL FILM 1K	
RV16	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV17	1-224-919-00	RES, ADJ, METAL FILM 5K	
RV18	1-224-919-00	RES, ADJ, METAL FILM 5K	
SWITCH			
S11	1-552-898-00	SWITCH, TOGGLE	
S12	1-552-898-00	SWITCH, TOGGLE	
S13	1-552-898-00	SWITCH, TOGGLE	
S14	1-552-898-00	SWITCH, TOGGLE	

	1-604-885-00	X BOARD	*****
	1-555-956-11	CONNECTOR ASSY (2.5MM) 2P	
DIODE			
D901	8-719-909-20	DIODE GL9NG2	

	1-604-884-00	Z BOARD	*****
CONNECTOR			
FA7	1-551-921-00	CONNECTOR ASSY 3P	
NEON LAMP			
NL901	1-519-108-XX	LAMP, NEON ASSY	
NL902	1-519-108-XX	LAMP, NEON ASSY	

MISCELLANEOUS			
	1-452-032-00	MAGNET, DISC	
	1-452-112-42	NECK ASSY, CRT	
	1-452-146-00	MAGNET, BMC	
	1-453-081-00	HIGH-VOLTAGE BLOCK, DC	
	1-508-723-00	4P PLUG, DIN	
	1-509-774-43	CONNECTOR ASSY, 3P	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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• Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

Ref.No	Part No	Description	Remark
R903	1-246-446-00	RES, CARBON 75	
R904	1-246-446-00	RES, CARBON 75	
R905	1-246-446-00	RES, CARBON 75	
R911	1-202-830-00	RES, SOLID 10K 1W	
R912	1-202-830-00	RES, SOLID 10K 1W	
RV901	1-226-687-00	RES, VAR 500	
RV902	1-224-619-00	RES, VAR, CARBON 5K	
RV903	1-224-259-XX	RES, VAR, CARBON 5.0K	
S901	1-553-330-00	SWITCH, PUSH (POWER)	
S902	1-516-777-XX	SLIDE SWITCH	
S903	1-516-777-XX	SLIDE SWITCH	
S904	1-516-777-XX	SLIDE SWITCH	
T911	1-439-208-00	TRANSFORMER, FLYBACK	
T901	1-447-065-00	TRANSFORMER, POWER	
V901	8-738-301-05	13NBF (FINE PITCH) 330UB22	

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
1-508-723-00	4P PLUG, DIN	
3-701-360-00	LABEL, TACK	
3-701-631-00	BAG, POLYETHYLENE	
4-309-537-00	BAG, POLYETHYLENE	
4-353-603-00	PLATE, NUMBER	
4-353-646-00	INDIVIDUAL CARTON	
4-353-647-00	CUSHION (UPPER)	
4-353-648-00	CUSHION (LOWER)	
4-493-587-11	MANUAL, INSTRUCTION	

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
• MF : μ F, PF : μ PF

RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS
• MMH : mH, UH : μ H

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → Use the high voltage rated one.						
	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.	50 VOLT. PART No.	63 VOLT. PART No.
0.47							
1.0							
2.2							
3.3							
4.7							
10							
22							
33							
47							
100							
220							
330							
470							
1000							
2200							
3300							
4700							
6800							
10000							

CAP. (μF)	100 VOLT. PART No.	160 VOLT. PART No.	250 VOLT. PART No.	350 VOLT. PART No.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

CERAMIC CAPACITORS

CAP. (pF)	RATING						
	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.	50 VOLT. PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

MYLAR CAPACITORS

CAP. (μF)	RATING										
	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	50 VOLT. CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	50 VOLT. CAP. (μF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00		
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00		
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00		
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00		
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00		
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00		
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00		
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00		
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00		
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00		
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00		
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00		
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00		
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00		
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00		
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00		
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00		
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00		
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00				
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00				
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00				
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00				
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00				
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00				

HARDWARE NOMENCLATURE

Screw:

P 3 x 10

L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).













1-1

Nut, Washer, Retaining ring:

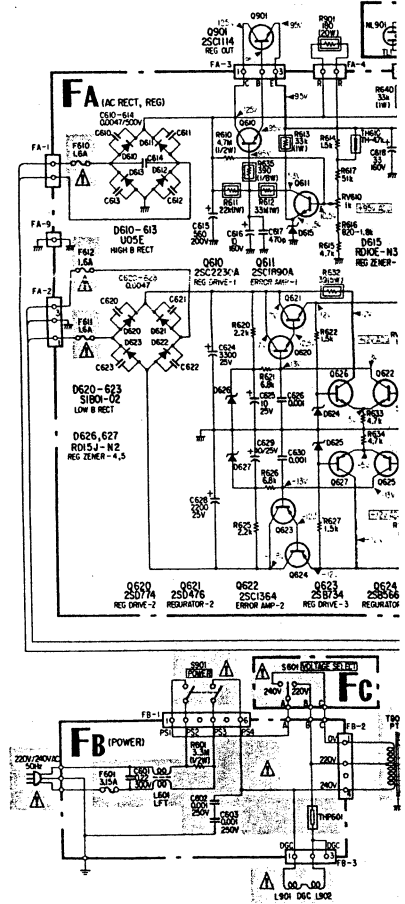
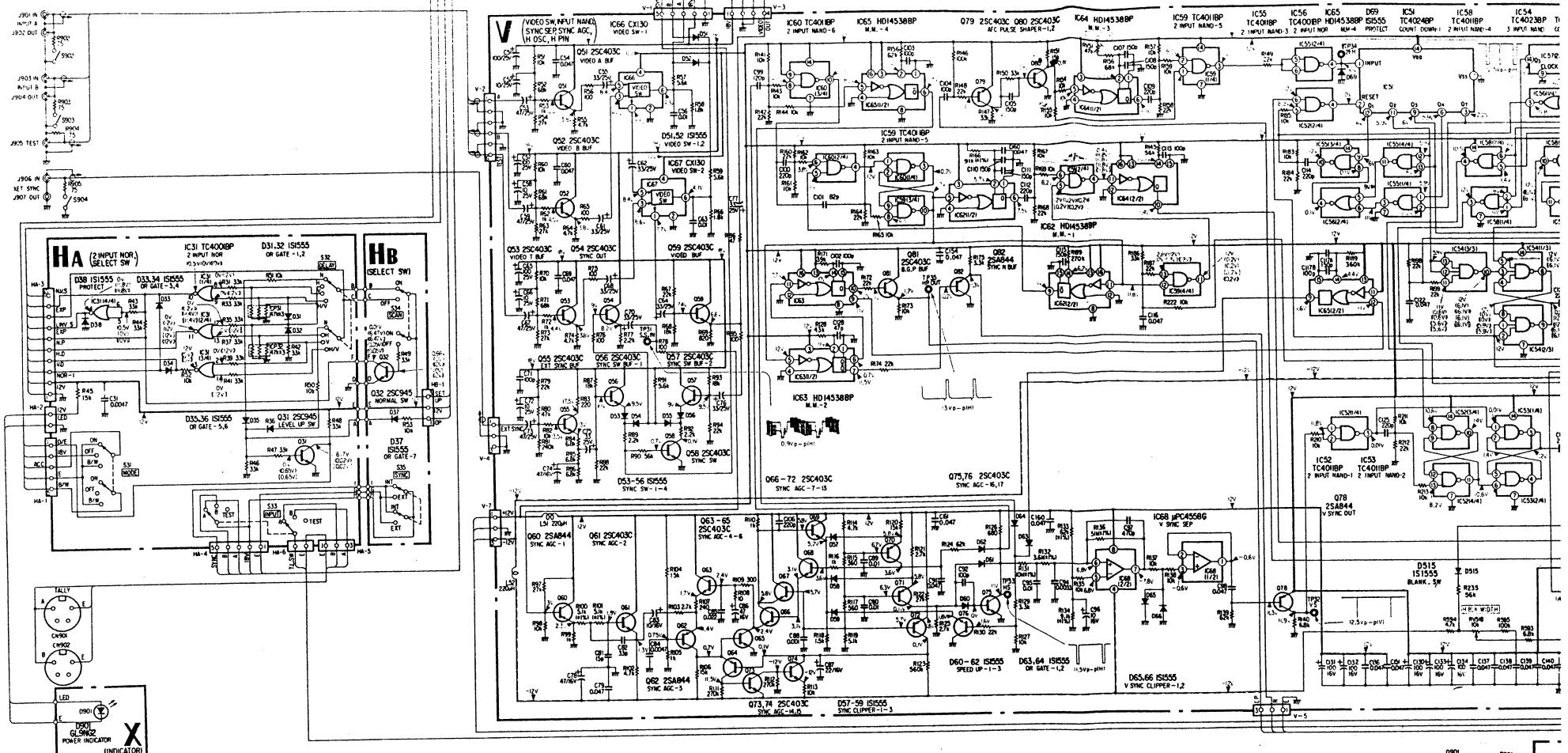
N 3

Diameter of usable screw or shaft

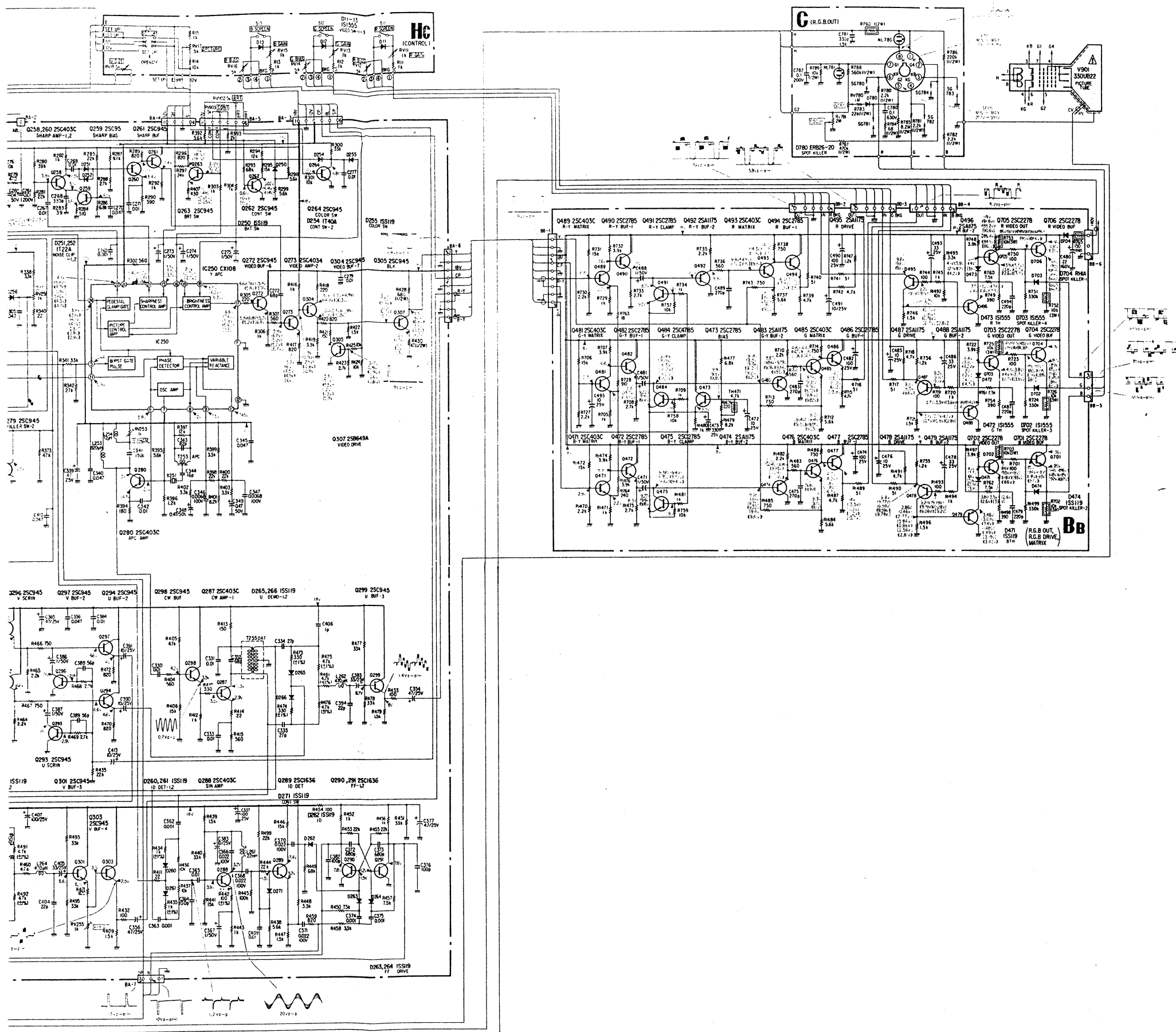
Reference designation

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

SCHEMATIC DIAGRAM



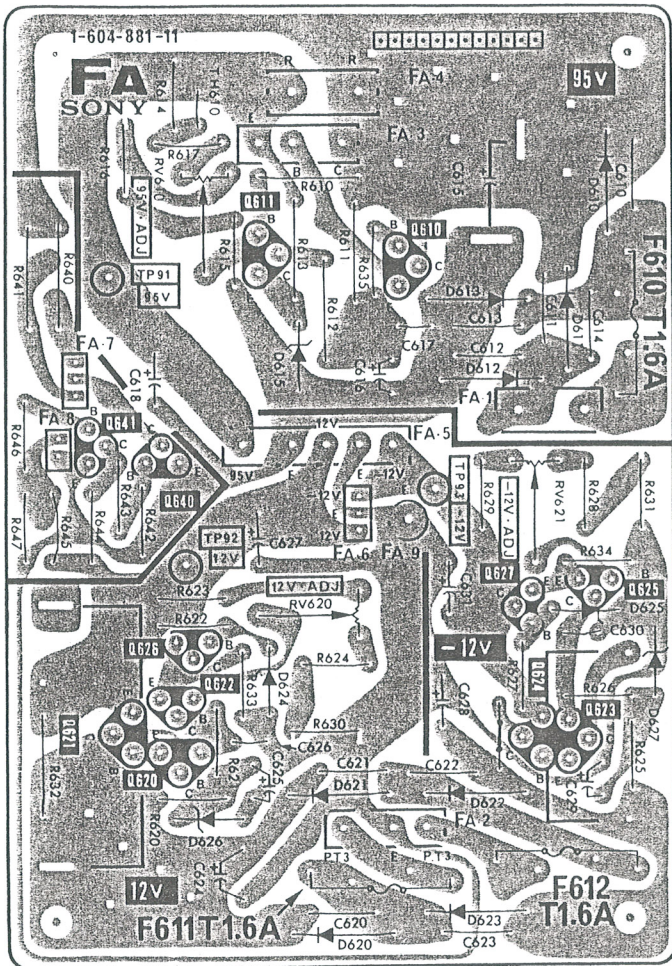




MOUNTING DIAGRAM

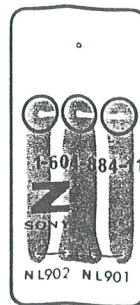
FA

(AC RECT, REG)



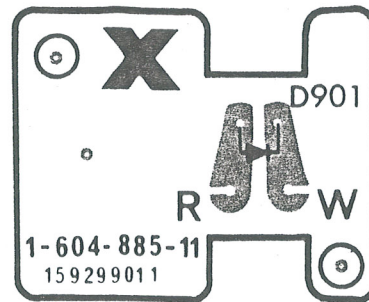
Q, IC	D	ADJ
610		RV610
611	610	
613	611	
615	612	
641	640	RV621
625		RV620
627	625	
626	627	
622	624	
621	623	
620	622	
621	626	
623		
620		
Q, IC	D	ADJ

Z



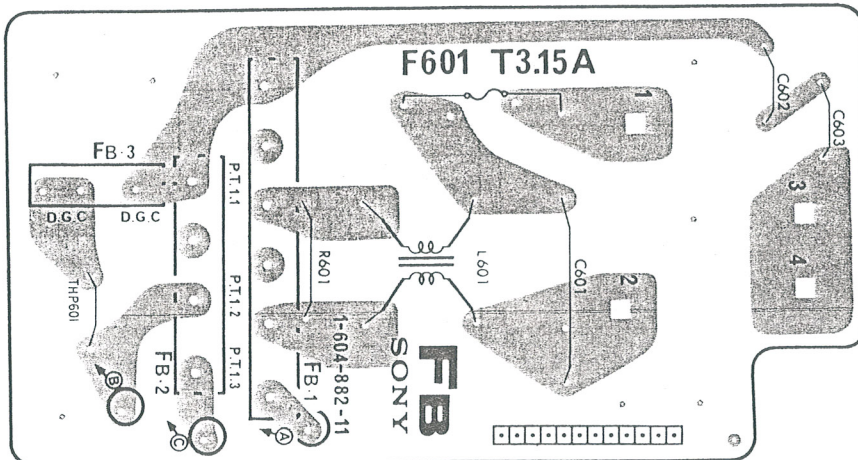
X

(INDICATOR)

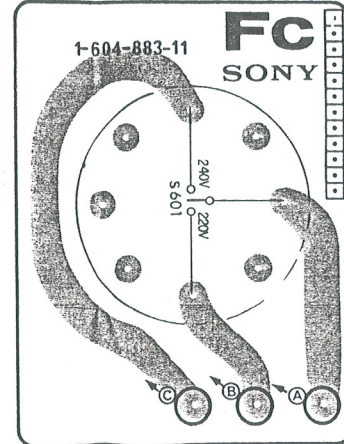


FB

(POWER)

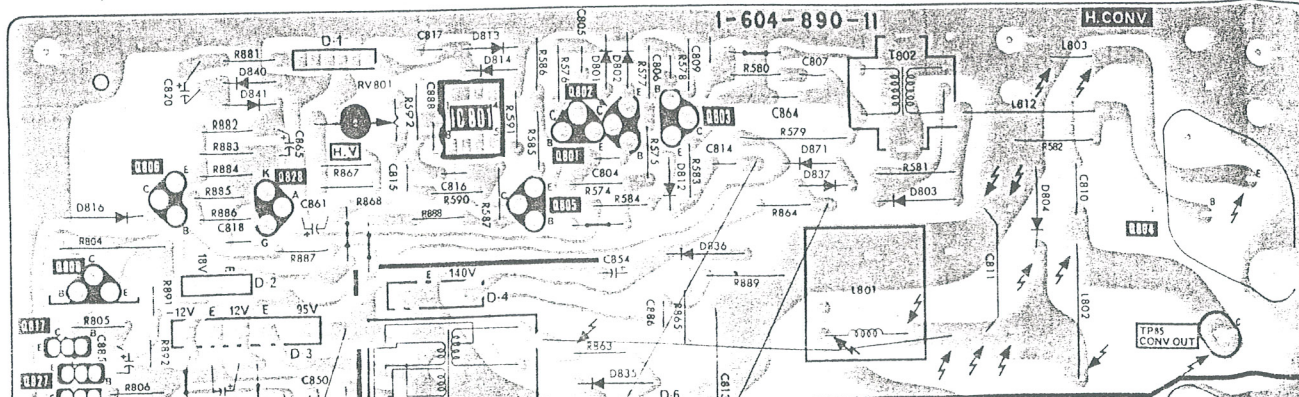


Fc



D

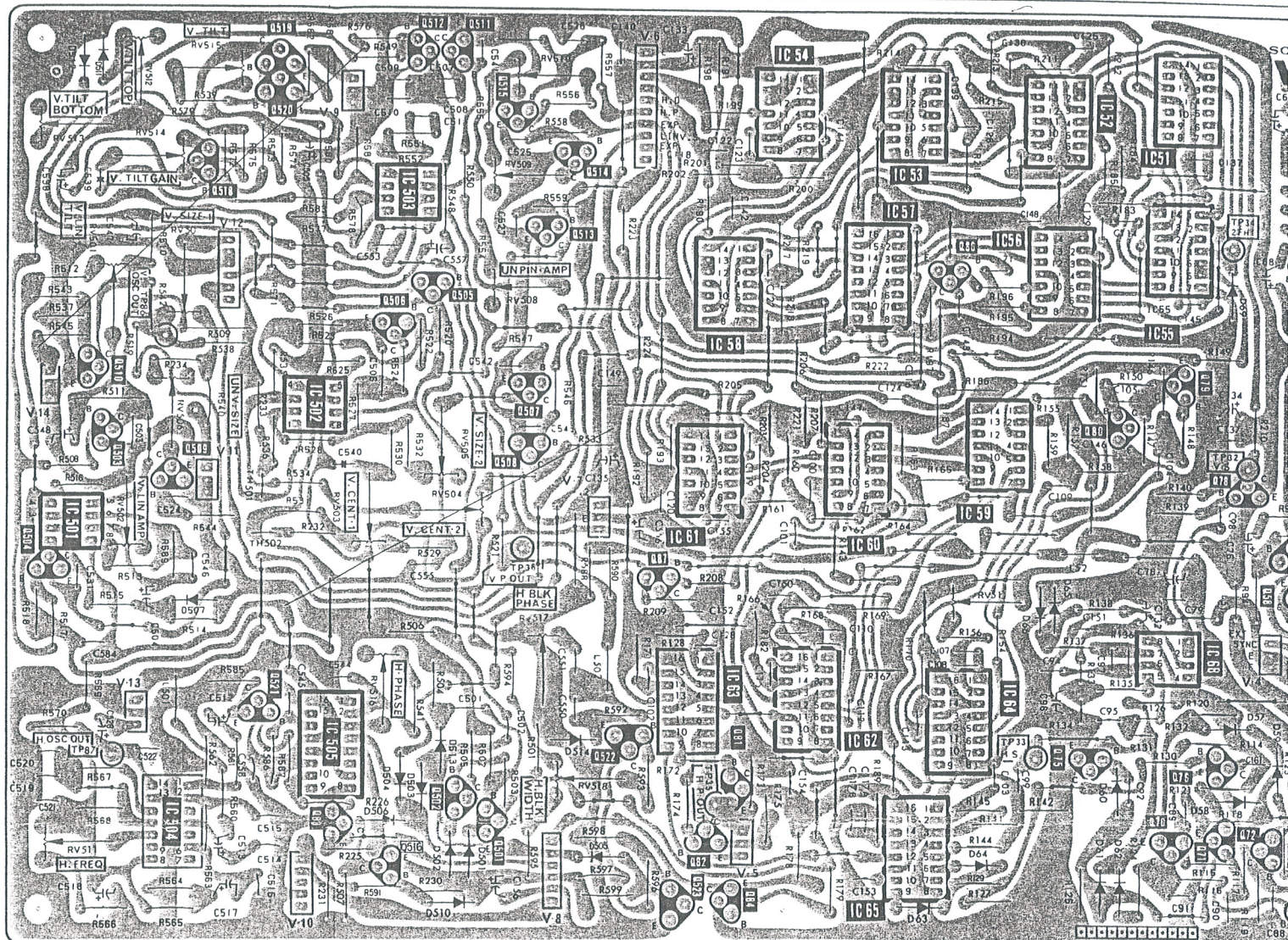
(DC AMP, DEF.
HV PROTECT)



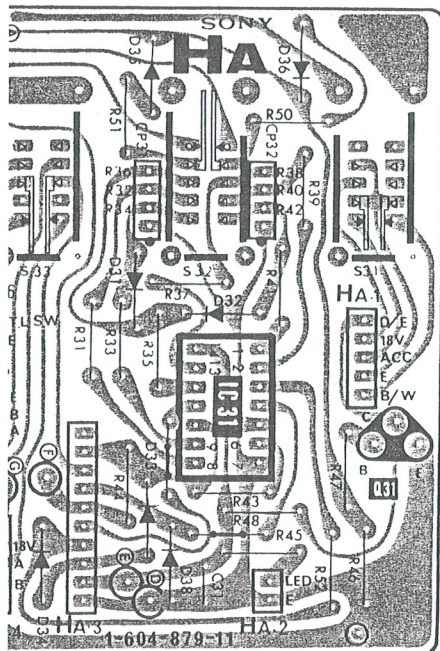
Q, IC	D	ADJ
813		
814	801 802	
840		
841		RV 801
IC801		
801 802 803		
806	871	
828	812 837	
805	816 803	
804	804	
808	836	
817		
827		
818	835	

V VIDEO SW, INPUT NAND
SYNC SEP, SYNC AGC,
H OSC, H PIN

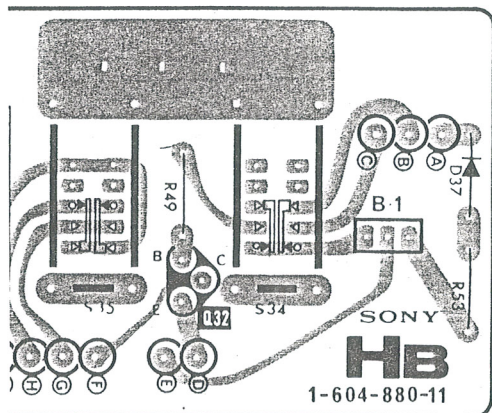
Q	IC	D	ADJ
504	IC501	512 511	RV513
503	IC504	507	RV501 RV512 RV514 RV502 RV506
518	521	509	RV507 RV515
519	IC502	520	RV503 RV516
IC505	83	516	RV505 RV504
512	IC503	506	RV509 RV510 RV508 RV517
511	505	513 502 501	RV518
515	507	514 505	
513	508		
514	522		
IC58	87	523 IC63	
IC54	IC61		
IC57	81		
IC60	82		
IC53	86		
IC59	IC65		
IC52	IC56	63	
80	75	64	
IC68	70	66 65	
IC51	76	60	
IC55	78	61 62	
79	71		
76	57		
78	58		
72	59		



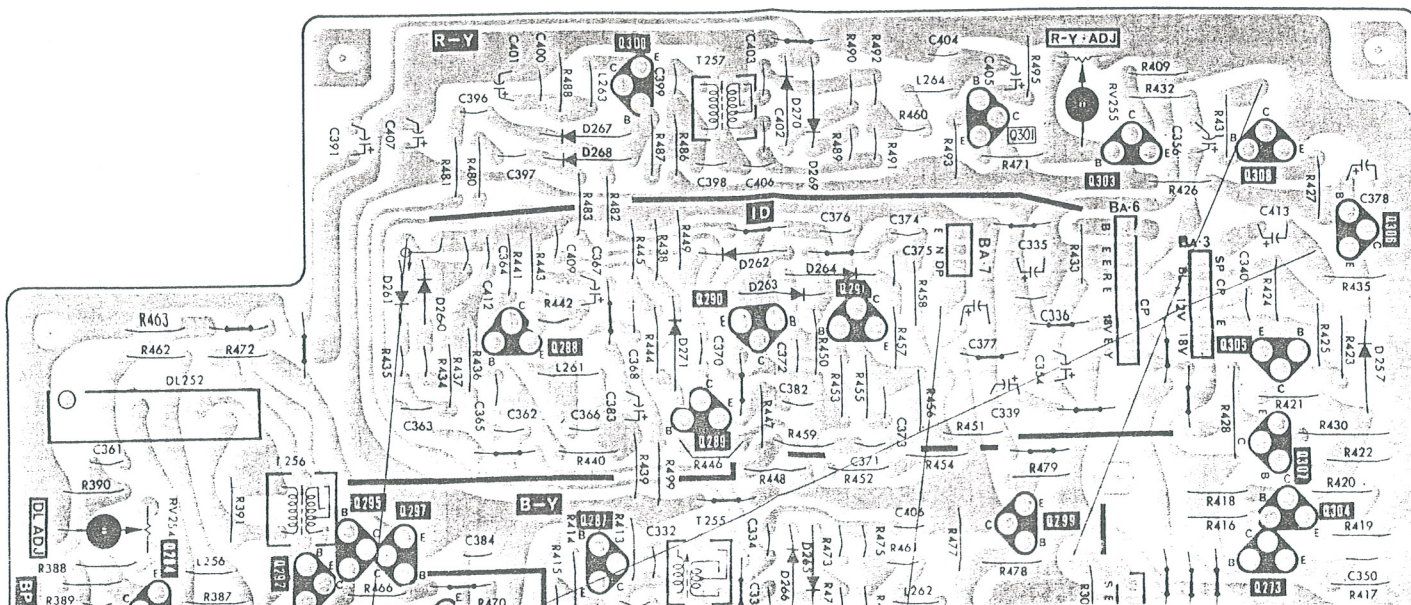
A 2 INPUT NOR,
SELECT SW



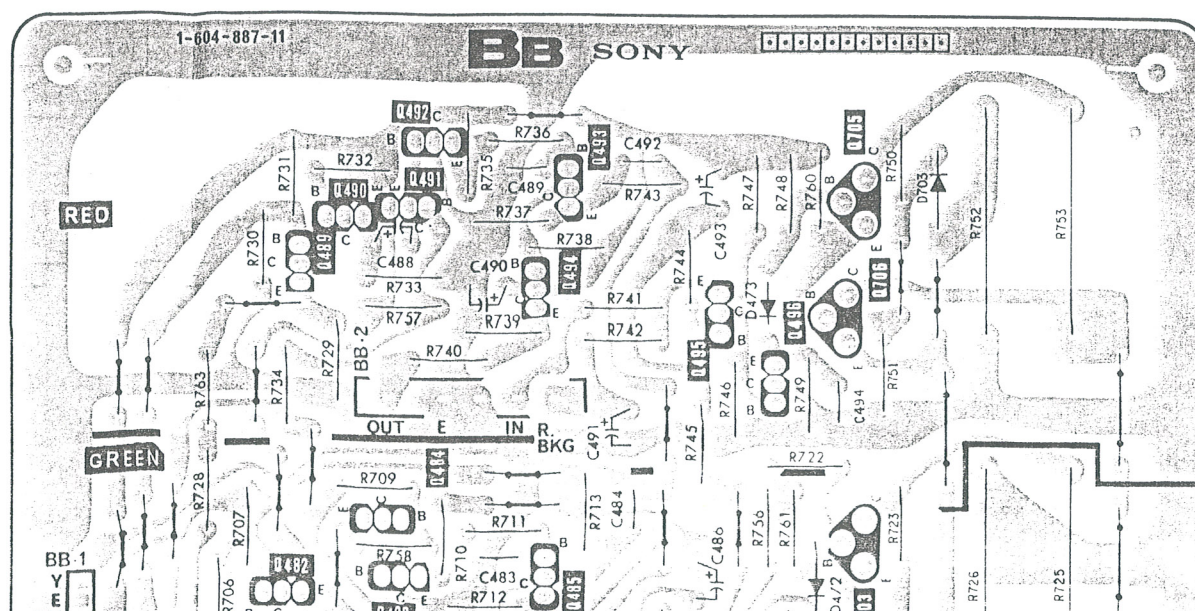
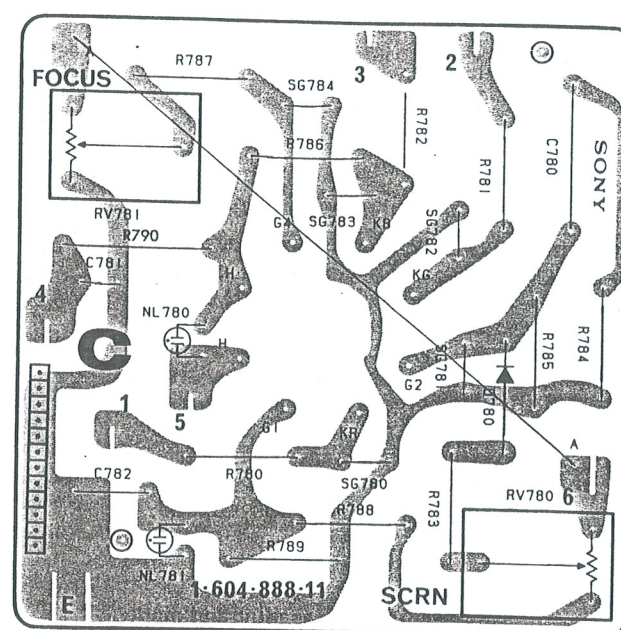
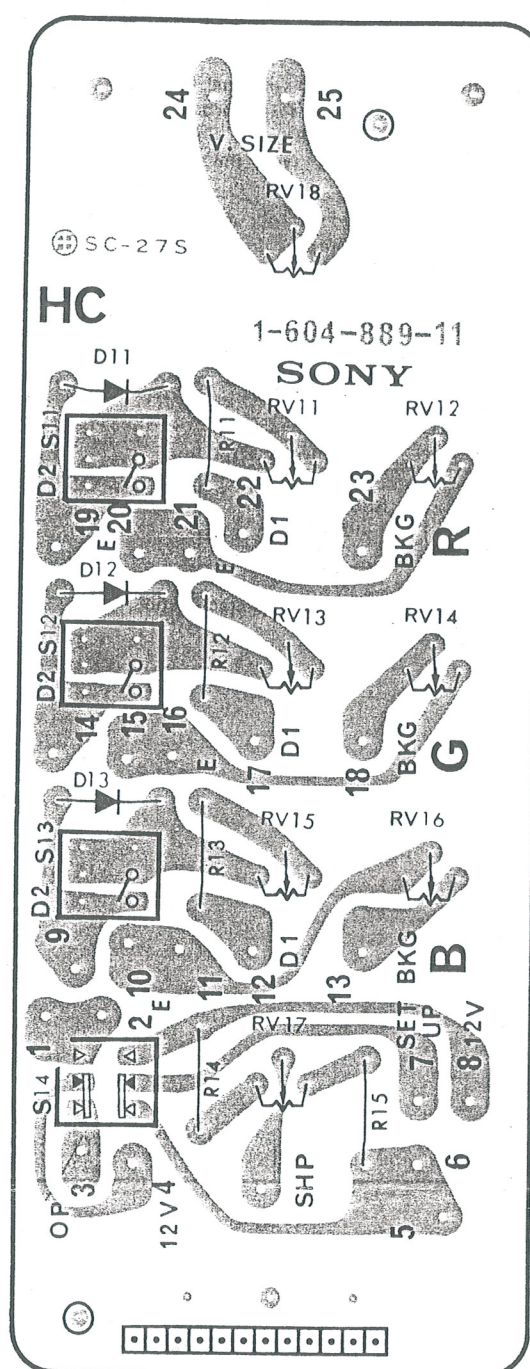
B (SELECT SW)



BA COLOR BUF
VIDEO DRIVE
ACC SW, Y APC

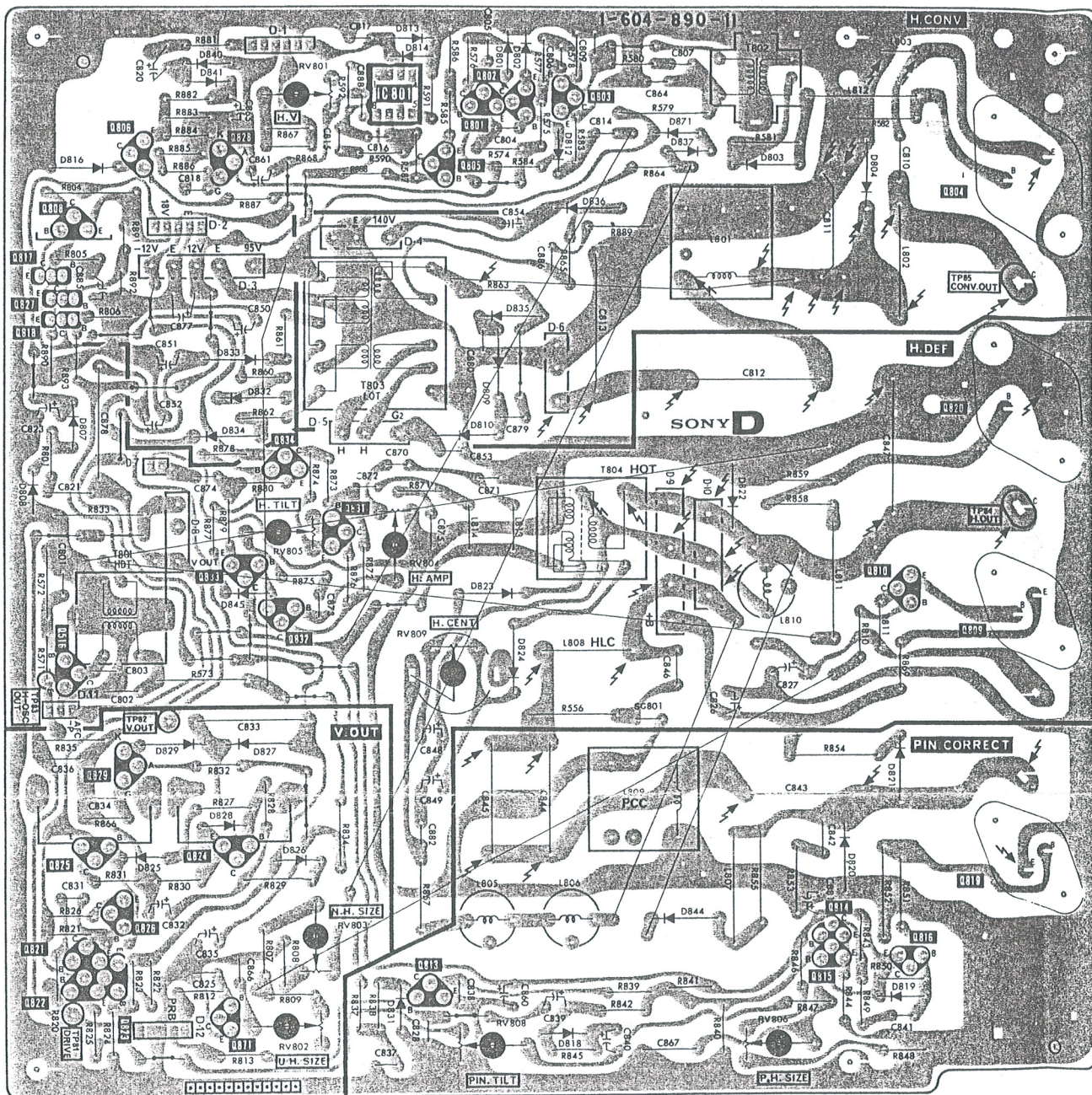


Q, IC	D	ADJ
300	270	RV255
301	269	
303 308	267 268	
306	262	RV254
	264	
	265	
290 291	261 263	RV254
288	271	
305	257	
289		RV254
307		
304		
295 297	255	RV254
287 273	256	
292	265	
284		



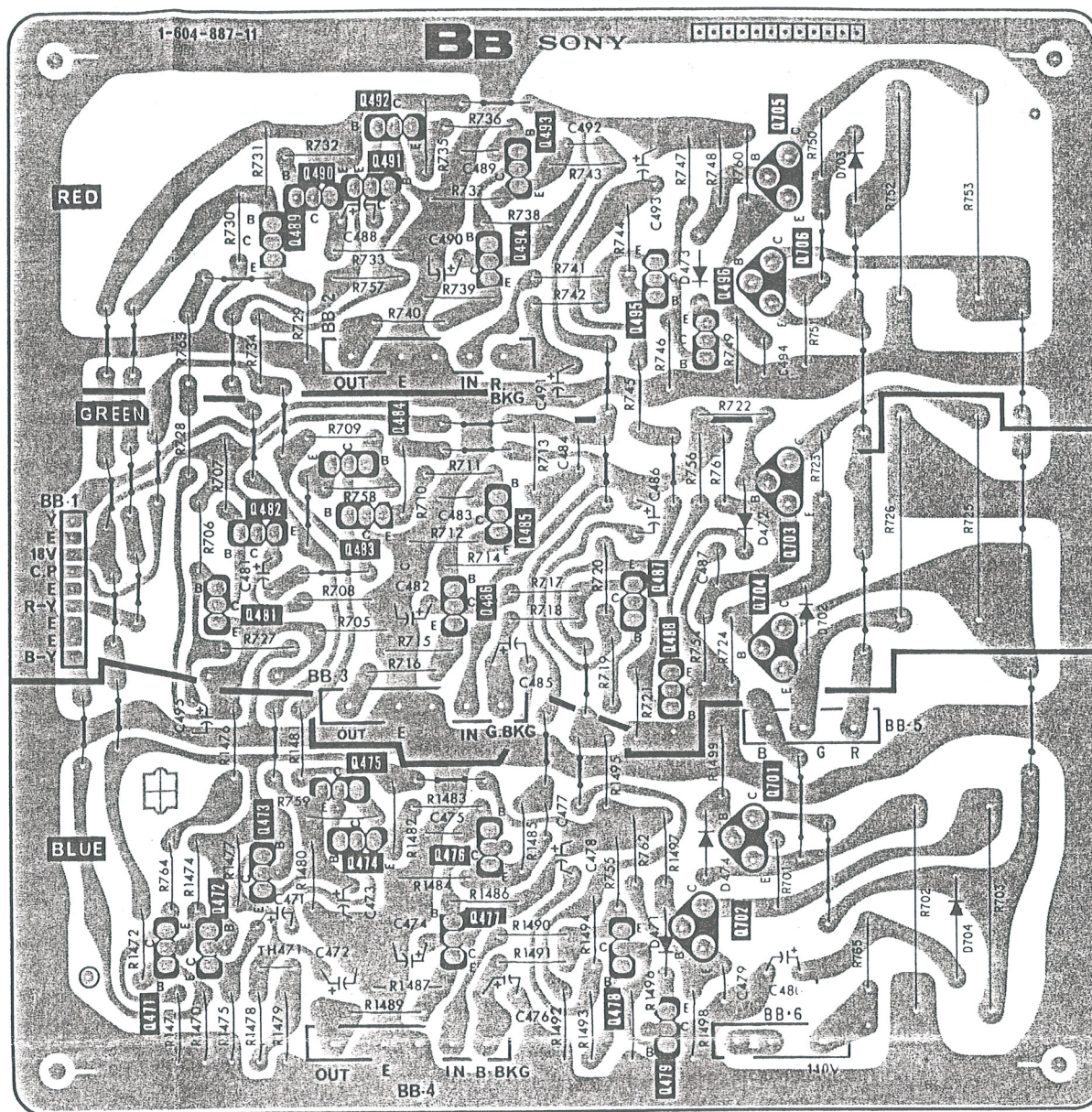
Q, IC	D
492	
493	
490 491 705	703
489	
494	
495 706	473
496	
484	
703	
483 485	
482	472

D [DC AMP, DEF.]
[HV PROTECT]



Q, IC	D	ADJ
IC801	813	
801 802 803	801 802	RV801
	840	
	841	
	871	
806	812 837	
828 805	816 803	
	804	
	836	
808		
817		
827		
818	835	
	833 809	
	820	
	807 810	
834		
	808 822	
831		RV805
833		RV804
810	845 823	
832	809	
516	824	RV809
	829 827	
829	821	
	828	
825 824	820	
	825 826	
	819	
826	844	RV803
821 815 816		
823		
822 813	819	
871	831	RV802
	818	RV808
		RV806
Q, IC	D	ADJ

В В



Q, IC	D
492	
493	
490 491 705	703
489	
494	
495 706	473
496	
484	
703	
483 485	
482	472
481 486 487	
704	702
488	
475	
474 476 701	
473	474
702	704
471 472	
477 478	471
479	
Q, IC	D

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